The morphosyntax of exhaustive focus: A view from Awing (Grassfields Bantu)*

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Abstract

We provide an analysis of focus and exhaustive focus in the Grassfields Bantu language Awing. We show that Awing provides an exceptionally clear window into the syntactic properties of exhaustive focus. Our analysis reveals that the Awing particle le (LE) realizes a left-peripheral head which, in terms of its syntactic position in the functional sequence, closely corresponds to the Foc(us) head in standard cartographic analyses (e.g., Rizzi 1997). Crucially, however, we show that LE is only used if the focus it associates with receives a presuppositional exhaustive (cleft-like) interpretation. Other types of focus are not formally encoded in Awing. In order to reflect this semantic specification of LE, we call its syntactic category Exh rather than Foc. Another point of difference from what one would consider a “standard” cartographic Foc head is that the focus associated with LE is not realized in its specifier but rather within its complement. More particularly, we argue that LE associates with the closest maximal projection it asymmetrically c-commands. The broader theoretical relevance of the present work is at least two-fold. First, our paper offers novel evidence in support of Horvath’s (2010) Strong Modularity Hypothesis for Discourse Features, according to which information structural notions such as focus cannot be represented in narrow syntax as formal features. We argue that the information structure-related movement operations that Awing exhibits can be accounted for by interface considerations, in the spirit of Reinhart (2006). Second, our data support the generality of the so called closeness requirement on association with focus (Jacobs 1983), which dictates that a focus-sensitive particle be as close to its focus as possible (in terms of c-command). What is of special significance is the fact that Awing exhibits two different avenues to satisfying closeness. The standard one—previously described for German or Vietnamese and witnessed here for the Awing particle ts’ı’s ‘only’—relies primarily on the flexible attachment of the focus-sensitive particle. The Awing particle LE, in contrast, is syntactically rigid. For that reason, the satisfaction of closeness relies solely on the flexibility of other syntactic constituents.

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1 Introduction

The Grassfields Bantu language Awing marks exhaustive focus by the morphological marker \(l^{\circ}\) (henceforth referred to by the gloss le), which precedes the in-situ focused expression, as illustrated in (1). The translation suggests that sentences with le roughly correspond to clefts in English. The sentence in (1) does not represent a general focus-marking strategy: it can be used, for instance, in a correction setting (saying that Ayafor went to the house rather than, say, to school), but not as an answer to a simple wh-question (‘Where did Ayafor go with his money?’).\(^1\)

(1)  Ayafor a- yó- yía ló ndé\(_F\) ní ŋkáŋ 3íə.
Ayafor sm- F1- come LE house with money his
'It is to the house that Ayafor will come with his money.'

The sentence in (1) is a prototypical example of how the le particle is used: it immediately precedes the focused constituent. Indeed, if \(ní ŋkáŋ 3íə\) ‘with his money’ is exhaustively focused, it is that constituent that the le particle precedes, as shown in (2).

(2)  Ayafor a- yó- yía ndé ló [ ní ŋkáŋ 3íə]\(_F\).
Ayafor sm- F1- come house LE with money his
'It is with his money that Ayafor will come to the house.'

From this state of affairs, it is tempting to jump to the conclusion that le is syntactically attached (adjoined) to the focus. Yet, once subjects are considered, this simple and perhaps appealing generalization breaks down. In particular, if the subject is exhaustively focused, le occurs pre-verbally, as illustrated in (3). Three further differences are notable: (i) the postverbal position of the subject, (ii) the lack of the subject marker, and (iii) verb doubling.

(3)  Ló yó- yía Ayafor\(_F\) yía ndé ní ŋkáŋ 3íə.
LE F1- come Ayafor come house with money his
'It is Ayafor who will come to the house with his money.'

We argue that the puzzling positioning characteristics of the le particle in Awing receives a natural and unified explanation if one analyzes le as the realization of a left-peripheral functional head Exh, which appears between T and Agr. More specifically, Exh selects a TP, and the ExhP it projects can in turn be selected by Agr. The focused constituent with which le associates, is located within the TP. The proposed configuration is schematically illustrated in (4).

\[
\begin{array}{c}
\text{AgrP} \\
\uparrow \\
\text{Agr} \\
\uparrow \\
\text{ExhP} \\
\uparrow \\
\text{Exh} \\
\uparrow \\
\text{TP} \\
\uparrow \\
\text{LE} \\
\uparrow \\
\ldots\text{XP}_F\ldots
\end{array}
\]

Before we move on, we should point out that Awing has an alternative strategy of exhaustive focus marking, what we will call the biclausal strategy (i.e., essentially a cleft construction). A

\(^1\)All Awing data and the corresponding judgments are due to Henry Fominyam and Melvis Ngwemeshi (both native speakers of Awing). The following abbreviations are used in the glosses throughout the paper: 1/2/3 = 1st/2nd/3rd person; ACC = accusative; COMP = complementizer; F1 = future tense 1 (later today); F2 = future tense 2 (tomorrow or later); HAB = habitual; IMPF = imperfective; INF = infinitive; NEG = negation (plain negation); NEG1 = negation 1 (discontinuous negation); NEG2 = negation 2 (discontinuous negation); P1 = past tense 1 (earlier today); P2 = past tense 2 (yesterday or earlier); PL plural; PERF = perfective; PROG = progressive; REL.COMP = relative complementizer; RES.PRON = resumptive pronoun; SG = singular; SM = subject marker.
biclausal alternative to the monoclausal (1) is illustrated in (5). Here, the combination of le and the focused constituent are placed sentence-initially and are followed by a relative-clause-like structure with a gap (or a resumptive pronoun) in place of the focused expression.

(5) \( \text{Ló ndéf pí'a } \text{ Ayafor a- yó- yíó ni ŋkáp zíó.} \)

\( \text{le house REL.COMP Ayafor sm- F1- come with money his} \)

‘It is to the house that Ayafor will come with his money.’

We will argue that the analysis sketched in (4) provides an adequate account of the biclausal strategy, despite the apparent absence of any (extended) verbal projections to which le could attach.

Our paper is primarily devoted to a detailed analysis of the morphosyntax of exhaustive focus in Awing. This entails a careful description of various relevant aspects of the Awing grammar, especially because Awing is understudied and its grammatical properties do not always neatly fit one’s expectations. In order to keep the discussion coherent, we cannot do full justice to the many theoretically relevant issues raised by our discussion, issues such as verb doubling, subject–verb (or subject–object) inversion, or the immediately-after-the-verb (IAV) position for focus. While these issues are briefly discussed, we believe that taking a more pronounced comparative and cross-linguistic perspective of them would make the paper too digressive and long. There is one issue, however, that merits closer discussion because it is of particular importance and generality: the issue of the relation between syntax and information structure.

The past twenty years have witnessed a lively discussion concerning how exactly syntax and information structure are related. On the one hand, the influential work of Luigi Rizzi (1997) kick-started the so called cartographic program for analyzing syntactic manifestations of information structure.\(^2\) Within this program, information structure properties of constituents are fully integrated into narrow syntax, being embodied in relations (esp. Spec-Head) with devoted left-peripheral heads like Foc(us) or Top(ic). Syntactic movement is then utilized to yield the “feature checking” configurations required by information structure. On the opposite side of the spectrum stands the seminal work of Tanya Reinhart (1995, 1997, 2006), who argued that information structural notions such as focus are peripheral to syntax. She maintained that focus is related to prosody and that the function of “focus-related” syntactic movement (e.g., scrambling in Dutch) is to yield a configuration in which nuclear stress can be applied without violating the so called stress-focus correspondence. Let us refer to these approaches to the syntax–information structure interface as “direct” and “indirect”, respectively.

The competing approaches have been explicitly contrasted in a series of papers by Julia Horvath (2000, 2005, 2007, 2010), a proponent of the indirect approach (albeit not a prosody-based one).\(^3\) Horvath argues that what was traditionally conceived of as “focus movement” in Hungarian, i.e., movement to the specifier of a functional projection directly involved in focus licensing (e.g., Brody 1995; Horvath 1995), should rather be analyzed as movement associated with the semantic (not information structural) process of exhaustive identification (a notion that goes back to Kenesei 1986).\(^4\) For example, the movement of Jánost in (6) (and the accompanying movement of the verb hinták, crossing the particle meg) gives rise to the inference that János is the only person who got invited. Using a slightly more technical formulation, the movement plays a role in the exhaustive identification of the entity (or entities) in the extension of the background (the set of entities that got invited). Crucially, Horvath argues that it holds that (i) the displaced constituent need not be focus at all (as long as it is interpreted exhaustively), and (ii) only a proper subset of focused constituents in Hungarian undergo this type of movement.

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\(^2\)Rizzi’s work has important predecessors, e.g., Laka (1990), Brody (1995), or Tsimpli (1995).

\(^3\)Gisbert Fanselow has also explicitly contrasted the direct and the indirect approach, providing further arguments in favor of the latter. See Fanselow (2006, 2008) and Fanselow & Lenertová (2011).

\(^4\)A useful overview of the so called “focus movement”, with special reference to Hungarian, can be found in Szendrői (2005).
Based on facts like these, Horvath proposes an analysis where the cartographic Foc(us) head is “replaced” by what she labels an EI head (abbreviating Exhaustive Identification). More generally, an information structure-related head is replaced by a head relevant for semantic interpretation (the computation of truth-conditions and presuppositions). Horvath (2010) then generalizes this idea by formulating the hypothesis in (7).

(7) The Strong Modularity Hypothesis for Discourse Features
No information structure notions – i.e., purely discourse-related notions – can be encoded in the grammar as formal features; hence no “discourse-related features” are present in the syntactic derivation. They are available only outside the CHL [the computational system of human language ≈ narrow syntax].

(Horvath 2010:1349)

The present paper can be seen as providing further support to this modularity hypothesis. The empirical evidence can be summarized as follows. First, we will show that Awing exhibits no formal encoding of focus whatsoever and as such, the language provides no empirical justification for postulating a formal focus feature (see section 3). Second, our analysis of the particle LE reveals that it does not encode focus but rather exhaustive identification (see section 4.5), analogously to the pertinent movement operation in Hungarian. Third, despite the fact that Awing exhibits information structure-related movements, esp. a movement “out of focus” (but arguably also a movement “into focus”), we will argue that these syntactic operations should, in the spirit of Reinhart’s work, be perceived as motivated by interface requirements, rather than by the requirements of narrow syntax (section 4.4).

Despite the absence of formal encoding of focus, the distribution of focus is grammatically constrained in Awing once it associates with LE. In particular, we will argue that the focused constituent must be as close to LE as possible, where closeness is defined in terms of asymmetric c-command.\(^5\) This suggests that some elementary grammatical encoding of focus is necessary in Awing, after all. We characterize this encoding in terms of the classical notion of an F-marker (Jackendoff 1972; Rooth 1992), which we believe to be substantially different from a formal focus feature (see the discussion in section 4.3).\(^6\) Despite the limited distribution of focus associated with LE, it remains the case that there is no dedicated focus position in Awing. Associated foci can, in principle, appear anywhere in the structure, as long as they satisfy the closeness requirement.

Finally, there is a sense in which our work provides evidence supporting the cartographic program, albeit with an important proviso. In particular, Awing morphosyntax affords some striking evidence showing that the particle LE has a fixed position in the functional domain of the Awing clause. The facts are naturally captured by the assumption that LE spells out a functional head (which we call Exh) strictly placed between Agr and T. This position roughly corresponds to the position usually attributed to the left-peripheral Foc head.\(^7\) If Horvath’s reanalysis of Foc in terms of a head encoding exhaustive identification is on the right track, i.e., if Foc and Exh (or Horvath’s EI) are in fact one and the same head, then the Awing facts

\(^5\) We will show that closeness in Awing is virtually identical to what has been observed for German (Jacobs 1983; Büring & Hartmann 2001) and recently also for Vietnamese (Erlewine to appear).  
\(^6\) This is in line with the view expressed in Horvath (2013 note 1). For a competing view, see Szendrői (2005), who perceives Jackendoff’s F-marker simply as an earlier version of a focus feature.  
\(^7\) Rizzi (1997) and many others who follow him place Foc above Fin, which in turn is placed above T. It is not that unlikely, however, that Rizzi’s Fin is a species of T, which would bring the classical analysis closer to the present one.
presented in this paper can be perceived as further evidence for the reality of a functional head like Foc. The important proviso is that this head does not encode focus but merely associates with focus.\footnote{As we mentioned above, Horvath (2007) suggests that “focus fronted” constituents in Hungarian need not be focused at all. As far as we can tell, this is only partly true: the pertinent data seem to point in the direction of the so called “second occurrence focus”; see Baumann (2014) for a recent overview.}

The rest of the paper is organized as follows. Section 2 provides some background on the Awing language, paying special attention to the basic word order and the verbal morphology. Section 3 concentrates on focus marking in Awing. We show that focus as such (in the sense of Rooth 1985, 1992) typically receives no formal encoding at all—irrespective of whether the focus is “free” (as in answers to wh-questions) or “bound” (when associated with focus-sensitive particles ‘also’ and ‘only’) and irrespective of whether it concerns a subject, an object, or an adjunct (the only exception being verb focus associated with ‘only’). Section 4 spells out the core proposal, namely that le is a realization of a left-peripheral head Exh (located between Agr and T), which associates with the closest following maximal projection, and semantically contributes presupposed exhaustivity. Section 5 summarizes the paper and explores some general consequences of our proposal.

2 Background on Awing

Awing is a Narrow Grassfields Bantu language spoken by about 20,000 native speakers in the Mezam division of the North West region of Cameroon (ethnologue.com). According to glottolog.org, it belongs to the group of 9 Ngembaic languages, together with, e.g., Mbili (Biloa 2015) or Bafut (Tamanji 2009). The Ngembaic languages belong to Nka languages, which in turn is a sub-group of Mbam-Nkam languages (another sub-group of which are the Bamileke languages). As far as we are aware, there is no comprehensive grammar of Awing and overall, the linguistic literature on Awing is scarce: the phonology of Awing received attention in Azieshi (1994) and van der Berg (2009); Fominyam (2012) provided a description of the Awing left periphery and Fominyam (2015) deals with the syntax of focus and interrogation in Awing.

Like many other (Grassfields) Bantu languages, Awing is an SVO language with a rich agglutinating verbal morphology, a nominal class system, and lexico-grammatical tone. We adopt a number of notational conventions that deserve mentioning. We refrain from glossing noun classes, as they are in no way essential to the present contribution. Our glossing of the verbal complex, on the other hand, is very detailed. We consistently distinguish between prefixes (x-), suffixes (-x), and free morphemes (x). We are aware that the affixal vs. free nature of some verbal morphemes might be a controversial issue. The decisive criteria for us are (i) the fixed relative position to the verb and (ii) its indivisibility from the verb. As for tone, Awing has four tones: falling (à), rising (á), fall-rising (á), and rise-falling (ã). For the sake of simplicity, we leave the falling tone unmarked.

2.1 Basic word order

The examples in (8) illustrate the basic sentential form in Awing: an intransitive unergative sentence in (8a), an intransitive unaccusative sentence in (8b), and transitive sentences in (8c)–(8e). We see that the word order is consistently SV and SVO.

(8) a. Neh a- pe'-n- dzó'-nkía.
   Neh sm- p1- n- marry-water
   ‘Neh swam.’
There are no strictly ditransitive sentences in Awing in the sense that the indirect object is always introduced by a preposition, even if it is pronominal, as shown in (9). The example also shows that if adjuncts are present, they are located after the direct and indirect object.

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(9) Mˇ a mother wagˇ o pˇ e-mˇ e our give maˇ sˇ a in the morning.
    ‘Our mother gave them maize in the morning.’

Awing exhibits various word order alternations, i.e., deviations from the canonical SV(O) orders. Some will be discussed and analyzed below. We assume that word order alternations are derived by interface-driven syntactic movements.

### 2.2 Verbal morphology

Awing verbal morphology deserves extra attention because it plays a crucial role in our argumentation. The morphology of the Awing finite verb is templatic. The verb takes at most one suffix and up to four types of prefixes, schematically summarized in (10), using standard syntactic categories to represent them (the asterisk on Asp- indicates that more aspect prefixes can be present at once). We consider the functional morphemes affixes (rather than free morphemes) because in general, (i) they have a fixed position with respect to the verb and with respect to each other and (ii) no constituent can be placed between the verb and the affixes or between any two of the affixes.\(^9\) A particular example of the template in (10) is given in (11). The correspondence between the prefixes in (11) and the morphosyntactic categories in (10) should be self-explanatory (see footnote 1 for the list of abbreviations); let us just make clear that we take the subject marker (sm-) to be of category Agr-.

\[
\begin{align*}
(10) & \quad \text{Agr- T- Neg- Asp-}\star \quad V\quad -v \\
(11) & \quad \text{Tsefor a- yˇ o- mˇ a- za- kˇ i’-kˇ o- manˇ a mˇ iˇ sˇ aˇ gˇ a.} \\
& \quad \text{‘Tsefor will no longer make his cattle climb up the mountains.’}
\end{align*}
\]

None of the affixes is a necessary component of the verb. As illustrated in (12a), a finite verb can well appear in its bare stem form, provided that it delivers the intended meaning. Dropping agreement (subject marker) is only an option, however, if the subject is overtly realized; see (12b). We further note that the affixes are not contingent on one another; for instance, T- can appear without Asp- and Asp- without T-, as illustrated in (12c) and in (12d), respectively. (We will get to the prefix m-, glossed as N-, at the end of this section.)

\[^9\]The only exception to this generalization is constituted by sentences with discontinuous negation, which, we believe, involves a morpheme that can either be a prefix or be free. Examples are provided below.
(12) a. Neh fófó aŋwa’ró.
    Neh read book
    ‘Neh reads a book.’

    SM- read book read book
    ‘He/She reads a book.’ (Intended)

c. Neh yó- fófó aŋwa’ró.
    Neh F2- read book
    ‘Neh will read a book.’

d. Neh zá- m- fófó aŋwa’ró.
    Neh HAB- N- read book
    ‘Neh usually reads a book.’

Each category has at most one affix exponent at a time (for instance, multiple little -v suffixes or multiple Neg- prefixes are disallowed), the only systematic exception being Asp-. Example (13) illustrates this by combining the progressive and habitual aspect within one verbal complex.

(13) Neh a- yó- tá- za- fófó aŋwa’a.
    Neh SM- F2- PROG- HAB- read book
    ‘Neh will usually/often be reading a book.’

The Asp- slot hosts not only canonical aspectual markers (such as progressive or perfective), but also what one could call “light adverbs”, in particular kó- ‘also’, pi- ‘again’, zaŋkó- ‘quickly’, and po’na- ‘slowly’. When they appear together, they do so in a strict order, which means that the Asp- slot should in principle be further divided into subslots, as shown in (14). For the purpose of illustration, we provide the two examples in (15).

(14) Asp- ≈ also- again- PROG- HAB- quickly-/slowly-

    Ngwe SM- F2- again- quickly- cook achu
    ‘Ngwe will cook achu quickly again.’

    Ngwe SM- F2- also- HAB- slowly- talk
    ‘Ngwe will also usually talk slowly.’

There are two negation strategies in Awing: plain negation and discontinuous negation. There is no clearly discernible semantic difference between these two strategies. The plain negation, illustrated in (16a), involves the prefix má-. The discontinuous negation is illustrated in (16b). It involves two negation markers: the prefix kë- (glossed NEG1-), located in the same templatic position as má-, and the morpheme pó (glossed NEG2), located in the clause-final position. Discontinuous negation strategies of this sort are fairly common in Bantu languages; see Devos & van der Auwera (2013) (whose glossing convention we follow).

    Ngwe SM- F2- NEG- PROG- read book
    ‘Ngwe won’t be reading a book.’

    Ngwe SM- F2- NEG1- PROG- read book NEG2
    ‘Ngwe won’t be reading a book.’

The use of discontinuous negation typically results in a word order alternation: the verb, or more precisely the verbal complex that follows kë (NEG1), is realized clause-finally—just before
pô (NEG2). This is illustrated in (17)—a word order variant of (16b). (Note that we do not write a hyphen after kˇ e because technically, it is not a prefix in this case.) The verb-final order is considered unmarked in discontinuous negation, though the nature of the markedness is difficult to pin down.\footnote{Structures with discontinuous negation could be taken to reveal that Awing is, at some level of representation, an OV language. Its OV nature would typically be obscured by V-movement to higher functional heads; in section 4.2 we show that such a movement is indeed motivated for Awing. The free morpheme variant of the negative morpheme kˇ e would then represent a head to which V cannot adjoin. This kind of approach to V-positioning has been proposed by Koopman (1984) for Vata and more recently Kandybowicz (2008) for Nupe.}

Finally, we would like to draw attention to a special prefix that is sometimes attached to V, Asp, or Neg. The prefix takes the form of a nasal consonant that is homorganic with the first consonant of the category it attaches to, i.e., either n-, m-, or ñ-. (Awing verbs or prefixes never have a vowel in the onset.) We uniformly gloss it as N-. This prefix sometimes triggers a phonological alternation on the initial consonant of the host category. For instance, attaching N- to the habitual prefix za- (which has a fricative in the onset) results in n-dz\textsuperscript{a}- (turning the fricative into an affricate).\footnote{An anonymous reviewer kindly points out that a similar VO-OV alternation under negation was observed for Niger-Congo spoken in the Macro-Sudan belt, where OV may be a reflex of Proto Niger Congo (see, e.g., Givón 1975).} The distribution of N- can be characterized as follows: In future-tensed verbal complexes, there is no N- whatsoever; otherwise, any overt prefix of category T, Neg, or Asp triggers the occurrence of N- on the linearly following element. Four illustrative examples are provided below. In (18a), simple present tense is used (unmarked) and the verb f\textsuperscript{o}p\textordmasculine o ‘read’, preceded only by the subject marker a-, occurs in its base form. In (18b), the habitual aspect prefix is used, triggering the prefix N- (realized as m- because of the labiality of the onset) on the verb. In (18c), the aspect prefix is preceded by a past tense prefix, which in turn triggers the occurrence of N- on the aspect prefix (turning the fricative z onset to the affricate dz). Finally, in (18d), the past tense prefix is replaced by a future tense prefix. In effect, no N- prefix is used anywhere (not even on the verb which follows the aspect marker).\footnote{The prefix phonetically fuses with the initial consonant of its host if the latter is also nasal. Since this leaves no phonetic trace (such as lengthening), we do not include it in the examples.}

\begin{align*}
(17) & \quad \text{Ngwe a\textordmasculine y\textordmasculine ké aýwaré tó- fópô pô.} \\
& \quad \text{Ngwe SM- F2- NEG1 book PROG- read NEG2} \\
& \quad \text{‘Ngwe won’t be reading a book.’}
\end{align*}

\begin{enumerate}
\item a. Neh a- fópô aýwa’r\textordmasculine o.
\quad Neh SM- read book
\quad ‘Neh reads a book.’
\item b. Neh a- zá- m- fópô aýwa’r\textordmasculine o.
\quad Neh SM- HAB- N- read book
\quad ‘Neh usually/often reads a book.’
\item c. Neh a- no- n- dzá- m- fópô aýwa’r\textordmasculine o.
\quad Neh SM- P2- N- HAB- N- read book
\quad ‘Neh usually/often read a book.’
\item d. Neh a- yô- zá- fópô aýwa’r\textordmasculine o.
\quad Neh SM- F2- HAB- read book
\quad ‘Neh will usually/often read a book.’
\end{enumerate}
3 Focus and focus-sensitive particles in Awing

We have the classical Roothian (1985; 1992) understanding of focus. In Krifka’s (2007) words, focus is the expression that “indicates the presence of alternatives that are relevant for the interpretation of linguistic expressions.” (p. 18) This relatively underspecified semantic notion of focus, taken by Rooth to be expressed by prosodic prominence in English (and many other languages), is compatible with a wide range of uses, including the indication of question–answer congruence, contrast, or association with focus-sensitive particles such as ‘only’ and ‘also’. In what follows, we prepare the ground for our analysis by investigating how (and if at all) focus is formally expressed in Awing. We illustrate three types of focus—answerhood focus, focus associated with ‘only’, and focus associated with ‘also’—and for each type we consider four types of focused expressions: direct objects, subjects, verb phrases, and (transitive) verbs. Postverbal constituents like adjuncts and various kinds of PPs (including indirect objects) behave on a par with direct objects.\(^{14,15}\)

### 3.1 Answerhood focus ("free" focus)

Focus used in answers to wh-questions is considered by many the prototypical kind of focus.\(^ {16}\) The alternatives indicated by answerhood focus correspond to the possible answers to the wh-question under discussion. In the simple conversation A: *Who came?* B: *John\(_F\) came*, for instance, the focus on *John*—expressed by prosodic prominence in English—indicates alternative propositions like *Mary came, Dave came, Mary and Dave came*, etc. These alternative propositions are “relevant for the interpretation” of B’s utterance because they correspond to the possible answers to A’s question. This so called question–answer congruence contributes to discourse coherence.

In Awing, answerhood focus is not formally encoded: there is no discernible change in prosody, no dedicated syntactic construction, word order alternation, or morphological marking, irrespective of which constituent is in focus. Examples are provided below.\(^ {17,18}\)

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\(^{14}\)We do not analyze interrogative wh-words in this paper, but it is notable that they behave on a par with foci. By default, they are realized in situ and remain morphosyntactically unmarked. They can, just like foci, be associated with the le particle, giving rise to cleft-like questions (‘Who is it that. . . ’) with the expected meaning. Some examples of wh-questions will be given shortly. See Fominyam (2015) for a more detailed discussion.

\(^{15}\)An anonymous reviewer is wondering how Awing expresses other types of foci, such as verum (polarity) focus or focus on elements expressed by prefixes in Awing, such as tense or aspect. A detailed analysis of these goes beyond the scope of this paper, but in a nutshell, we can say the following: There is no dedicated construction for verum focus. Standard structures are used and verum focus interpretation is a result of discourse pragmatics. Answerhood focus on prefixes receives no special encoding, in line with what is said in section 3.1. Concerning bound (associated) focus, there is no way prefixes can be associated with ‘only’ or le (association with ‘also’ is pragmatic and hence available). This follows from our proposal that association is only possible with maximal projections (see section 4.3). The intended interpretation must be expressed by a paraphrase whereby the semantics of the prefix is expressed, in one way or another, by a full phrase.

\(^{16}\)According to some, focus is even defined by its relation to (possibly implicit) questions. See Beaver & Clark (2008) or Velleman & Beaver (2015).

\(^{17}\)Short answers (utterances consisting of the focused expression alone) are the most preferred way of answering wh-questions in Awing. We follow the common practice in using the relatively marked sentential utterances, in order to be able to inspect the formal properties of focus.

\(^{18}\)The reader should not get confused by the X\(_F\) or [X]\(_F\) notation used in our examples: it is intended to indicate semantic focus only, not its formal encoding. Moreover, we distinguish between the ordinary subscript F (indicating the focused constituent) and the boldface subscript \(\mathbf{F}\), indicating formal F-marking. The concept of F-marking will be introduced in section 4.3.
(19) **Object focus**
A: Alombah a- pe'- námə ʊkó?
   Alombah SM- P1- cook what
   ‘What did Alombah cook?’
B: A- pe'- námə ʊgʊsáŋó.  
   SM- P1- cook maize
   ‘He cooked maize.’

(20) **Subject focus**
A: Wó pe'- námə ʊgʊsáŋó?
   who P1- cook maize
   ‘Who cooked the maize?’
B: Alombah a- pe'- námə zọọ.  
   Alombah SM- P1- cook it
   ‘Alombah cooked it.’

(21) **VP focus**
A: Neh a- fá'ọ  kó?
   Neh SM- work what
   ‘What is Neh doing?’
B: A- [ tó- n- dzfọ ali'ọ]F.  
   SM- PROG- N- till farm
   ‘She is tilling the farm.’

(22) **V focus**
A: Neh a- ghé' ọ  nó ʊgʊsáŋó wọ?
   Neh SM- do how with maize that
   ‘What has Neh done with that maize?’
B: A- pọ'- m- fìnáF zọọ.  
   SM- P1- N- sell it
   ‘She sold it.’

It is worth pointing out that the general absence of focus encoding in Awing (reinforced in the upcoming subsection) seems rather unusual from a cross-linguistic or cross-Bantu perspective, esp. with regard to subject focus. There is a significant body of literature strongly suggesting that subject focus is always accompanied by some sort of formal encoding (see footnote 22 for some references). Zeller (2008:239), for instance, conjectured that the canonical SV order (accompanied by the presence of an agreeing subject marker on the verb) is incompatible with subject focus in Bantu. Awing is clearly different, as (20) demonstrates (see also (24) below).

We perceive this state of affairs as fortunate for the current undertaking, as it allows us to strictly distinguish between “plain” focus and what we call exhaustive focus.

### 3.2 Focus associated with exclusive and additive particles (“bound” focus)

So called focus-sensitive particles—of which we consider ‘only’ and ‘also’ here—convey something about the alternatives indicated by focus. The exclusive particle ‘only’ conveys that the asserted sentence corresponds to the strongest true proposition among the alternatives indicated by focus. For instance, *John only loves Mary* conveys that John loves Mary and rules out that John loves anybody else, effectively by negating all other focus alternatives (*John loves Mary and Sue, John loves Mary and Dave*, etc.). The additive particle ‘also’ conveys that at least one focus alternative other than the asserted one is true. For instance, *John also loves Mary* conveys that John loves Mary and, in addition, somebody else. The contributions of ‘only’ and ‘also’ differ in that the former is asserted, while the latter is presupposed.
The particles under discussion are both present in the Awing lexicon, though each has a different grammatical status and each exhibits a different relation to the focus that it associates with. *Ts’o* ‘only’ is a free-standing morpheme that left-joins to the focus that it associates with (to be qualified for the case of VP focus).19 *Kő- ‘also’, on the other hand, is a verbal prefix realized in the Asp-slot of the template (see section 2.2), which does not exhibit any structural relation to the focus it associates with. Below, we provide a range of examples of focus associated with *ts’o* ‘only’ and *kő- ‘also’. Due to the lack of any formal cue about where the focus is located, we stick to using the contextual cue and present the sentences as answers to wh-questions.

(23) **Object focus**

A: Alombah a- pe’- náµma kő?
   Alombah SM- P1- cook what
   ‘What did Alombah cook?’

B1: A- pe’- náµma ts’ô əŋgasáŋyô.F.
   SM- P1- cook only maize
   ‘He only cooked maize.’

B2: A- pe’- náµma əŋgasáŋyô.F, kő- náµma əʧú’əF.
   SM- P1- cook maize also- cook achu
   ‘He cooked maize and he also cooked achu.’

(24) **Subject focus**

A: Wó pe’- náµma əŋgasáŋyô?
   who P1- cook maize
   ‘Who cooked maize?’

B1: Ts’ô AlombahF a- pe’- náµma əŋgasáŋyô.
   only Alombah SM- P1- cook maize
   ‘Only Alombah cooked maize.’

B2: AlombahF a- pe’- náµma əŋgasáŋyô, TseforF a- kő- náµma əŋgasáŋyô.
   Alombah SM- P1- cook maize Tsefor SM- also- cook maize
   ‘Alombah cooked maize and Tsefor also cooked maize.’

(25) **VP focus**

A: Neh a- fá’ô kő?
   Neh SM- work what
   ‘What is Neh doing?’

B1: A- [ tô- n- dzí’ô ts’ô əlî’ô]F.
   SM- PROG- N- till only farm
   ‘She is only tilling the farm [doing nothing else].’

   SM- PROG- N- till farm also N- PROG- cook beans
   ‘She is tilling the farm and also cooking beans.’

---

19 This should be read as a descriptive statement. At present, we cannot rule out the possibility that *ts’ô* ‘only’ adjoins to some (maximal) verbal projection, as argued for German *nur* ‘only’ by Büring & Hartmann (2001).
V focus

A: Neh a- ghé lè nò ògosàŋają wo?
  Neh sm- do how with maize that
  ‘What has Neh done with that maize?’

B₁: A- pe'- m- fínɔ zɔrə tsɔʃ'ɔ fínɔf (mosaanò).
  sm- P₁- N- sell it only sell morning
  ‘She only sold it (in the morning).’

B₂: A- pe'- námpɔf zi', kó- m- fínɔf.
  sm- P₁- cook it also- N- sell
  ‘She cooked and also sold it.’

A number of remarks are in order. First, the reader will have noticed that the prefix kó- ‘also’
does not only function as ‘also’, but can also perform the role of a coordinator between two
clauses. In some cases, the prefix is located in between the two clauses it coordinates, but this is
not necessary, as demonstrated by the case of subject focus. Moreover, let us remind the reader
that kó- need not play the role of a conjunction; see example (15b) above, where kó- simply
serves as an additive marker in a mono-clausal structure. Second, the case of VP focus seems
to violate our conjecture that tsɔʃ’ɔ left-adjoints to the focus that it associates with: it appears
not to attach to the VP but to the object that belongs to the VP, thus ending up “within”
the focus. However, there is a good reason to believe that tsɔʃ’ɔ does in fact attach to the VP
(or some relatively low functional projection of the verb), but this attachment is blurred by a
subsequent movement of the verb to a higher position. In section 4, we present independent
evidence that the Awing finite verb moves to the highest functional verbal projection available,
which is, typically, Agr. For clarity, we present the assumed (simplified) structure of (25)-B₁ in
(27), where xVP denotes some extended projection of VP.²⁰

(27) [[AgrP V . . . only [xVP t O]]]

Our third and last remark concerns verb focus associated with tsɔʃ’ɔ ‘only’, i.e. (26)-B₁. This
is the only case encountered thus far in which focusing requires a non-canonical structure.
Superficially, what happens is that the whole clause is uttered (possibly to the exclusion of
adjuncts), after which the verb in its bare stem form (note the absence of the N- prefix) appears,
modified by tsɔʃ’ɔ ‘only’ (possibly followed by adjuncts). We hypothesize that this verb-doubling
strategy arises as a solution to the conflict of two mutually independent requirements, namely
that tsɔʃ’ɔ left-adjoints to its focus associate and that the verb itself cannot be separated from its
functional morphemes. In analytical terms, we take the doubled verb to be an overt realization
of the trace/copy left after verb movement, as indicated by the schematic structure in (28).

(28) [[AgrP V . . . [VP . . . only t/V . . .]]]

One question raised by the above discussion is why the verb is doubled in cases of verb focus,
but not in the case of VP focus. We have no definitive answer, but would like to suggest that
some sort of overtness requirement might be at play here, prohibiting the covertness of the whole
constituent modified by ‘only’.

We include a brief but theoretically informed discussion of verb doubling when we get to the
exhaustive particle le, which exhibits a similar pattern; see section 4.4.

3.3 Summary and discussion

We have seen that in general, Awing does not encode focus at all. This state of affairs is
expected for objects and perhaps VPs, the focusing of which represents, in some sense, the

²⁰An anonymous reviewer kindly points out the Awing VP focus data resemble those in Guruntum (Fiedler et al.
2010). Moreover, a parallel analysis to ours for the Guruntum data is then given in Büring (2010).
default information structure of sentences. On the other hand, it is somewhat surprising to find no marking of subject and verb focus, which have frequently been shown to require some marking or another; see, e.g., Fiedler et al. (2010) for a survey of subject–object asymmetries in focus marking in West African languages and Güldemann (2003) or van der Wal & Hyman (2017) for investigations of verb/predicate focus in Bantu languages.

The only situation where some kind of encoding is obligatory is the case of verb focus associated with the particle tsɔŋ ‘only’, in which case Awing exhibits a strategy of verb doubling. We hypothesized that this follows from two independent requirements: (i) that ‘only’ in Awing must adjoin directly to the focused constituent and (ii) that the main verb is inseparably connected to the functional prefixes. Doubling the verb in its bare-stem form is an elegant solution to this problem: the doubled verb stands (structurally) on its own and can therefore be directly modified by ‘only’. In what follows, we will see that verb doubling of this sort is a process that is independently attested in Awing. From that perspective, verb doubling does not represent a specialized verb-focusing strategy. Rather, it is a more general phenomenon of the Awing grammar, which can be utilized for the purpose of verb-focusing.

4 The exhaustive particle le in Awing

We now turn to the core of this paper: an analysis of the particle le. Our core syntactic proposal is introduced in section 4.2. The functional sequence we assume for Awing is schematized in (29). The Exh head, hosting the le particle, differs from all the other heads in that it is not realized as an affix (marked by the lack of a hyphen on the Exh head), but rather as a free-standing particle. Due to this property, the verb is incapable of incorporating into the Exh head and skips it on its way upward (unless Agr is missing, in which case the verb lands in T).

\[(29)\]

```
Agr-
   Exh
     T-
       Neg-
         Asp-
           -v
             V
```

In section 4.3, we discuss another core ingredient of our analysis, namely the requirement that le must be in a certain structural relationship with the focus that it associates with. In particular, le obeys the so called “closeness requirement” and always associates with the closest asymmetrically c-commanded maximal projection. We also address the question of how association with focus is ever possible in a language with no formal focus encoding.

Section 4.4 applies the proposal to an array of Awing data. We deal with various types of foci (object, indirect object, adjunct, subject, V, and VP) and show the particular structural descriptions that our proposal entails for these individual cases. The bottomline of the section is that Awing exhibits various information structure-related movements but that these are motivated at the interface, rather than in the narrow syntax. Also, we conclude that there is no need for a dedicated syntactic position for exhaustive foci in Awing.

In section 4.5, we provide empirical arguments supporting the position that le expresses presupposed exhaustivity of the focus it associates with.

Section 4.6 focuses on the biclausal variant of the Awing le construction. We will argue that the analysis developed up to that point is directly applicable to it.

But before we get to the proposal and the analysis, it is necessary to set up the empirical scene and state the core generalizations, which we turn to now.
4.1 Core data and generalizations

Example (30) illustrates the two basic strategies of expressing exhaustive focus in Awing: the monoclausal and the biclausal one. Both make use of the particle LE and in both cases, the particle precedes the focus it associates with. The difference is that in the monoclausal strategy, the focused constituent appears to be in its canonical position, whereas in the biclausal strategy it is placed extra-clausally and is modified by a relative clause, much like in English clefts.

(30) a. Monoclausal strategy
Ngwe a- nə- m- főŋə ló aŋwa’rō-əsəF.
Ngwe SM- P2- N- read LE book-god

b. Biclausal strategy
Ló aŋwa’rō-əsəF pá’a Ngwe a- nə- m- főŋə.
LE book-god REL.COMP Ngwe SM- P2- N- read
‘It is the Bible that Ngwe read.’

We postpone a closer discussion of the biclausal strategy to section 4.6, where we argue that our proposal—based on an analysis of the monoclausal strategy—extends to it readily.

As already suggested in the introduction, examples like (30a) create the impression that LE directly attaches to the focus that it associates with, much like the exclusive particle tsə’ ‘only’ does (see section 3.2). This parallelism is supported when one inspects the focusing of postverbal or verbal constituents more generally. Example (31a) shows the case of adjunct focus, (31b) the case of verb focus, and (31c) the case of VP focus. As the reader can verify by consulting section 3.2, the behavior of ‘only’ and LE appears entirely parallel: LE simply attaches to the focus it associates with, be it a direct object, an adjunct, or a verb (in which case verb doubling is employed). Also VP-focusing behaves as expected: LE attaches to the object, which, we hypothesized in section 3.2, might reflect a VP attachment in the syntax, obscured by the evacuation of V.

(31) a. Ngwe a- pe’- m- főŋə aŋwa’rō ló məsáaməF.
Ngwe SM- P1- N- read book LE morning
‘It was in the morning that Ngwe read the book.’

b. Ngwe a- pe’- n- tó- m- főŋə aŋwa’rō ló fōŋəməF.
Ngwe SM- P1- N- PROG- N- read book LE read
‘Ngwe was READING (rather than writing) the book.’

c. Ngwe a- nə- [ n- tó- m- főŋə ló aŋwa’rō]F.
Ngwe SM- P2- N- PROG- N- read LE book
‘It was reading a book (rather than cooking achu) that Ngwe was doing.’

The simple generalization that LE directly left-attaches to its focus breaks down when one considers the focusing of subjects. Example (32a) shows that attaching LE to the subject results in ungrammaticality. Example (32b) reminds the reader that there is no problem with focusing preverbal subjects per se: modifying subjects by tsə’ ‘only’ is grammatical.

(32) a. Ló NgweF a- pe’- m- főŋə aŋwa’rō.
LE Ngwe SM- P1- N- read book
Intended: ‘It is Ngwe who read the book.’

b. Tsə’ NgweF a- pe’- m- főŋə aŋwa’rō.
only Ngwe SM- P1- N- read book
‘Only Ngwe read the book.’

---

21 The reader will have noticed that object focus (illustrated in (30a)) and VP focus (illustrated in (31c)) are formally indistinguishable from one another. It is discourse pragmatics alone that decides between the two.
Awing has two solutions to express the meaning intended in (32a): either it uses the biclausal strategy (see section 4.6) or, using the monoclausal strategy, it places the subject postverbally, as shown in examples (33). These examples also show the two basic ways of dealing with canonically postverbal constituents in case the subject is postverbal: in (33a), the direct object and, more generally, all the postverbal constituents are placed clause-initially, and in (33b), the object and potentially other postverbal constituents appear in their canonical position, in which case, however, the verb must be doubled.22

(33) a. Aŋwa’rɔ le pe’- m- főŋɔ Ngwe.
   book LE P1- N- read Ngwe
   ‘It was Ngwe who read the book.’

The discussion above brings us to the first core generalization, spelled out in (34).23 The empirical pattern that follows from Generalization 1 is schematically represented in (35): (35a) is the licit case where the focus follows le and there is no maximal projection intervening; in the ungrammatical (35b), XP intervenes between le and the focused YP; and finally, in the ungrammatical (35c) the focused constituent does not follow le.

(34) **Generalization 1: Relation between le and focus**

The focus in Awing exhaustive constructions is the first maximal projection that follows le.

(35) a. le (Vfin) XP (YP)
b. *le (Vfin) XP YP

c. *XP . . . le . . .

This generalization covers both the case where le and focus are immediately adjacent (the focusing of objects, adjuncts, and VPs), as well as the case where they are not adjacent, i.e., where the verb complex intervenes (the focusing of subjects)—both instances of (35a). Verb focus is covered by (34) on the assumption that what is focused is not a verb per se, but rather some maximal projection containing exclusively that verb. This stipulation is necessary to distinguish between in-situ verbs, which can be associated with le, and ex-situ verbs (verbs head-moved to T or Agr), which cannot be associated with le (see section 4.4).

For completeness, we add a number of ungrammatical examples that support Generalization 1. The examples in (36) represent attempts to associate le with a constituent that follows it but not immediately. In (36a), the object intervenes between (a postverbal) le and the focused adjunct and in (36b), the subject intervenes between (a preverbal) le and the focused object. The examples in (37) (again, one with a postverbal and one with a preverbal le) represent attempts to associate le with a constituent that precedes it. All the examples violate Generalization 1 and all are ungrammatical under the intended interpretations (though of course,

22These facts show that Awing belongs to the class of languages that express (exhaustive) subject focus by subject–verb inversion and potentially by subject–object inversion. Within the typology of Marten & van der Wal (2014), Awing inversion falls quite neatly into the category of “default agreement inversion” (DAI), with two provisos: first, Awing VS structures do not exhibit “default agreement” but rather exhibit no agreement whatsoever (admittedly, the lack of agreement could be viewed as a special case of default agreement); second, Awing inversion is obligatorily accompanied by le. A more detailed discussion of focus-related subject–verb inversion in Bantu languages would be too much of a distraction, so we limit ourselves to providing a number of relevant references (kindly provided by an anonymous reviewer; for more references, see Marten & van der Wal 2014): Watters 1979 (Aghem), Bresnan & Kanerva 1989 (Chichewa), Ndayiragije 1999 (Kirundi), Morimoto 2000 (more Bantu languages), Buell 2006 (Zulu), Zerbian 2006 (Northern Sotho), Zeller 2008 (Zulu), Carstens & Mletshe 2015 (Xhosa).

23The formulation only approximates the facts. The actual situation is more complex in a number of respects, as we will see in sections 4.3 and 4.4.
they have interpretations that are consistent with Generalization 1, as indicated).

(36) a. *Ngwe a- pe'-m- fóʊ aŋwa’ró masánaŋf.
   Ngwe sm- p1- N- read le book morning
   Intended: ‘It was in the morning that Ngwe read the book.’
   (grammatical under object focus interpretation)

   b. *Ló pe'- m- fóʊ Ngwe fóʊ aŋwa’róf.
   le p1- N- read Ngwe read book
   Intended: ‘It was a book that Ngwe read.’
   (grammatical under subject focus interpretation)

(37) a. *Ngwef a- pe'- m- fóʊ lo aŋwa’ró.
   Ngwe sm- p1- N- read le book
   Intended: ‘It was Ngwe that read the book.’
   (grammatical under object focus interpretation)

   b. *Aŋwa’róf lo pe'- m- fóʊ Ngwe.
   book le p1- N- read Ngwe
   Intended: ‘It was a book that Ngwe read.’
   (grammatical under subject focus interpretation)

Let us now turn back to the exhaustive focusing of subjects, where, as we illustrated in (33), the verb occurs between le and the focused subject. The ungrammatical data below complete the picture by demonstrating that le cannot be placed immediately before the subject.

(38) a. *Aŋwa’ró pe'- m- fóʊ lo Ngwef.
   book p1- N- read le Ngwe
   Intended: ‘It was Ngwe who read the book.’
   b. *Pe'- m- fóʊ lo Ngwef fóʊ aŋwa’rá.
   p1- N- read le Ngwe read book
   Intended: ‘It was Ngwe who read the book.’
   (grammatical under subject focus interpretation)

This leads us to the second generalization, one that concerns the relative positioning of le, the verb, and the subject—see (39). Using “main verb” in the formulation avoids reference to a potential doubled occurrence of the verb. This generalization entails that out of the six possible permutations of S(subject), V(erb), and LE, only two are attested, as schematized in (40).

(39) **Generalization 2: Relative position of le, V, and S**

LE and the subject are never on the same side of the main verb.

(40) a. S V le . . .
   b. le V . . .
   c. *le S V . . .
   d. *S le V . . .
   e. *V le S . . .
   f. *V S le . . .

The data supporting Generalization 2 are summarized, for the reader’s convenience, in (41). Example (41a) corresponds to the SV pattern in (40a). It expresses exhaustive focusing of the object (and more generally, of (post)verbal material). Example (41b) corresponds to the VS pattern in (40b) and expresses exhaustive focusing of the subject. Example (41c) lists the various ungrammatical options corresponding to the SV patterns in (40c)/(40d) and example (41d) lists the ungrammatical options corresponding to the VS patterns in (40e)/(40f). Notice that the presence/absence of the subject marker plays no role for the ungrammaticality and the sentences are ungrammatical under any imaginable information structure.

(41) a. Ayafor a- yó- yí lo ndéf.
   Ayafor sm- f1- come le house
   ‘It is to the house that Ayafor will come.’
b. \( L\) yó- yía Ayafor \( F\) (yía ndé).
   LE \( F1\)- come Ayafor come house
   ‘It is Ayafor that will come (to the house).’

c. \( \{ * L\} \) Ayafor \( \{ * l\} \) (a-) \( \{ * l\} \) yó- \( \{ * l\} \) yía ndé.
   LE Ayafor LE SM- LE \( F1\)- LE come house
   Intended: ‘Ayafor came to the house.’ (under any information structure)

d. Yó- \( \{ * l\} \) yíó \( \{ * l\} \) Ayafor \( \{ * l\} \) (\( \{ * l\} \) yíó \( \{ * l\} \) ndé).
   \( F1\)- LE come LE Ayafor LE LE come LE house
   Intended: ‘Ayafor came to the house.’ (under any information structure)

Another generalization implicit in the data above is that the availability of subject–verb agreement depends on the position of the subject with respect to the verb, as expressed in (42).\textsuperscript{24} The consequences of Generalization 3, combined with independent properties of Awing (reported in section 2.2), are listed in (43). Subject–verb agreement (i.e., the presence of a subject marker) is in principle optional in Awing. In the absence of agreement, the subject can in principle occur both preverbally and postverbally, as indicated by (43a) and (43b). Because Awing is a pro-drop language, the variant listed in (43c) is also allowed. However, if both the subject and subject–verb agreement are expressed overtly, the subject must be preverbal, as seen at the contrast between (43d) and (43e).

(42)  **Generalization 3: Subject agreement**

Postverbal subjects never trigger agreement on the verb.

(43)    a. S V
    b. V S
    c. Agr-V
    d. S Agr-V
    e. *Agr-V S

The data supporting Generalization 3 are in (44). Examples (44a) through (44e) correspond to the patterns in (43a) through (43e). The exhaustive marker LE is optional with a preverbal subject or pro-drop (subject to a semantic alternation), but obligatory with a postverbal subject, as in (44b) (suggesting that the construction with a postverbal subject is a dedicated exhaustive focus construction).

(44)    a. Ayafor yó- yía (ló) ndé.
   Ayafor \( F1\)- come LE house
   ‘Ayafor will come to the house.’
    b. Ló yó- yía Ayafor (yía ndé).
   LE \( F1\)- come Ayafor come house
   ‘It is Ayafor that will come (to the house).’
    c. A- yó- yía (ló) ndé.
   SM- \( F1\)- come LE house
   ‘He/she will come to the house.’
    d. Ayafor a- yó- yía (ló) ndé.
   Ayafor SM- \( F1\)- come LE house
   ‘Ayafor will come to the house.’

\textsuperscript{24}Agreement asymmetries of this kind are quite common cross-linguistically. They have been extensively discussed for Arabic (see, e.g., Harbert & Bahloul 2002) but are also quite common in Bantu languages (e.g., Marten & van der Wal 2014). See also Chomsky (2015) for a recent theoretical discussion.
e. *Ló a- yó- yó Ayafor (yó ndé).
   LE sm- F1- come Ayafor come house
   Intended: ‘It is Ayafor that will come (to the house).’

The final relevant observation is that multiple LE particles cannot be easily combined within a single clause. In order to illustrate this, let us again inspect the behavior of LE as compared to the exclusive particle tsó’ ‘only’: while (45a) is completely ungrammatical, the parallel (45b) is grammatical and felicitous (provided the right context is assumed).

(45) a. *Ló pe’- n- tá- m- fóma Ngwef fóma ló aşwa’róF.
   LE p1- N- PROG- N- read Ngwe read LE book
   Intended: ‘It holds that) NGWE was reading a BOOK [not that ALOMBAH was reading a NEWSPAPER].’

b. Tsó’ NgweF a- pe’- n- tá- m- fóma tsó’ aşwa’róF.
   only Ngwe sm- p1- N- PROG- N- read only book
   ‘Only Ngwe was reading only a book.’
   (felicitous as a continuation of ‘Everybody was reading a book and a newspaper . . .’)

Now, having multiple LE particles in the postverbal position seems possible at first blush, as shown in (46a). However, there are two arguments that militate against allowing multiple LE particles in the postverbal area. Firstly, the linearly second constituent modified by LE in (46a) must be separated by an intonational break (which is not present by default). Examples like (46a) are therefore more likely to be analyzed as conjunctions of two clauses—each with its own LE and with ellipsis in the second clause (similarly to the English translation). Secondly, once we consider a sentence with two postverbal constituents both of which are necessary for the grammaticality of the sentence, multiple LE particles become ungrammatical, as shown in (46b).

(46) a. Ngwe a- pe’- m- fóma ló aşwa’róF ló masáñarF.
   Ngwe sm- p1- N- read LE book LE morning
   ‘It was a book that Ngwe read, and it was in the morning.’

b. *Alombah a- pe’- nqka ló aşwa’róF ló [ndú tabol]F.
   Alombah sm- p1- put LE book LE on table
   Intended: ‘It holds that) Alombah put the BOOK on the TABLE [not that he put the NEWSPAPER on the SHELF].’

We formulate this last observation as Generalization 4.

(47) **Generalization 4: One LE per clause**
One clause can have at most one LE particle.

Let us take stock. We saw that, despite an initial appearance, the exhaustive particle LE does not directly attach (left-adjoin) to its focus. Instead, a slightly weaker generalization holds, namely that the focused constituent is the first maximal projection that follows LE (Generalization 1). In many cases, this relation amounts to adjacency, but not so in the case of subject focus. We further showed that the exhaustive particle LE interacts in non-trivial ways with independent phenomena in the Awing grammar. In particular, the particle LE and the subject can never occur on the same side of the verb (Generalization 2) and a postverbal subject—one associated with LE—never triggers agreement on the verb (Generalization 3). Finally, we noted that one clause can host at most one particle LE (Generalization 4).

4.2 The Awing clause structure and the position of LE

We propose that in the default case, the Awing verb moves to “collect” all of its affixes—from the suffix -v (verbal extension), through the prefixes Asp-, Neg-, T-, all the way to the topmost
prefix Agr-, as schematized in (48).\footnote{In more technical terms, the verb head-moves and either left-joins or right-joins to the higher heads, depending on their morphological specification. We adopt this key ingredient of our analysis in the light of the empirical evidence presented here, as well as in Wiland (2009) or Pesetsky (2013), despite the theoretical reasons that speak either against head-adjunction in general (Matushansky 2006) or, more specifically, head adjunction to the right (Kayne 1994; see also Buell 2005 for a Kaynian analysis of the Zulu verbal complex).} If the Exh head is present, as in (48), the verb skips it on its way from T to Agr, in violation of Travis’s (1984) classical Head Movement Constraint. We can think of two reasons for why Exh is skipped by the verb: a morphological and a syntactic one. The morphological (superficial) reason would be that the exponent of the Exh head—the particle le—is simply lexically specified as a free morpheme rather than an affix. The syntactic (deep) reason would be that the Exh head lacks the features needed to attract the verbal complex. As such, it would neither attract the verb, nor would it intervene for its movement (assuming standard relativized minimalism). In the absence of relevant evidence, we shy away from choosing one option over the other.

(48) **Default verb movement to Agr**

As described in section 2.2, not all of the verbal affixes need to be present all the time. In general, we remain agnostic about (i.e., have no evidence to decide) whether the lack of an affix entails the lack of the corresponding syntactic head. Crucially, however, we assume that the Agr head can be genuinely missing. In that case, the verbal complex “lands” in T and therefore follows the Exh head. This situation is schematized in (49).

\footnote{An anonymous reviewer points out that this could be modeled within the account of Matushansky (2006) by stipulating that the verbal complex, after having moved to SpecExhP, is unable to undergo m-merger with Exh, which in turn leaves it free to move further up to SpecAgrP (and undergo m-merger with Agr). See also Bayrhr (2017), who argues that focus-sensitive heads (of which Exh is an example) are never realized as affixes.}
Verb movement to T (in the absence of Agr)

In the default case, the subject appears in SpecAgrP, as schematized in (50) (verb movement steps are ignored for simplicity). We take this to be a derived position of the subject and assume without discussion that it is base-generated within the vP.

Default surface position of the subject

When AgrP is missing and the verb stays in T, the subject surfaces lower in the structure, as schematized in (51). For the purpose of this paper, we set aside the question of where exactly the low subject is located. We believe that the issue is non-trivial and requires a proper analysis of verb doubling and the position of internal arguments in Awing, which goes beyond the scope of the present work.
Our analysis entails a direct dependency between the presence of Agr (whether overt or covert) and obligatory subject-movement to SpecAgrP. In feature-based terms, one could say that Agr has a subject-related EPP feature. AgrP is always projected in Awing, the only exception being the case where the subject is exhaustively focused and remains in a low structural position.

In summary, our proposal consists of the following irreducible assumptions about Awing:

A1 The exhaustive particle le spells out the functional head Exh (located between Agr and T).

A2 The verb moves to the highest extended verbal projection available (Agr by default).

A3 Exh is invisible for purposes of verb movement.

A4 The presence of Agr forces subject movement to SpecAgrP (EPP on Agr).

A5 The absence of Agr entails an AspP-internal subject (no EPP on T).

Let us now see how these assumptions derive Generalizations 2–4 from section 4.1. Consider first Generalization 4, namely that there is at most one le in a clause. This follows from the assumption that le is an exponent of the functional head Exh (A1) rather than a free-standing modifier (as, arguably, the word for ‘only’ in Awing). Now consider Generalization 2, namely that le and the subject are never on the same side of the verb. If Agr is present, the verb moves to it (by A2), thereby moving to the left of le (Exh) (by A3). At the same time, the subject must move to SpecAgrP (by A4), thereby moving to the left of the verb. This derives the S V le order. If Agr is absent, the verb moves to T (by A2), thereby staying to the right of le. At the same time, the subject stays within the AspP (by A5). This derives the le V S order. No other possibilities are allowed. Finally, consider Generalization 3, namely that postverbal subjects never trigger agreement. The only way to derive a postverbal subject is by not projecting Agr, since Agr would force movement of the subject to a preverbal position (A4). Since Agr is the locus of subject–verb agreement, it can never occur with postverbal subjects.\footnote{An anonymous reviewer is wondering how exactly the (non-)projection of Agr is regulated. Our approach}

\footnote{Crucially, such an EPP feature must be absent from T (otherwise, Generalization 1 would not be derived). We do not know why this is the case, though it would follow from the plausible assumption that a subject-related EPP is a property that is associated with at most a single head in the extended verbal projection (in a given language).}

\footnote{All these assumptions are expressible as lexical statements, using standard minimalist tenets; e.g., A2 corresponds to the lexical postulate that v, Asp, Neg, and T all have a “strong” [V] feature that must be “checked” (by head-moving V to them). We consider the precise technical formulations immaterial for the present purposes.}

\footnote{An anonymous reviewer is wondering how exactly the (non-)projection of Agr is regulated. Our approach}
4.3 Association of LE with focus

What remains to be discussed is Generalization 1, which states that LE associates with the closest following maximal projection. In this section, we suggest how Generalization 1 could be captured and discuss some theoretical implications of the proposal.

In section 3, we showed that there is no general prosodic, morphological, or syntactic strategy of encoding focus in Awing, certainly not one that would be comparable to focus encoding by prosodic prominence, well-known from European languages. The implication is that focus structure is contextually determined. However, we have witnessed two cases in which focus is, at least in part, determined morphosyntactically. This is the case of focus associated with the particle *tsɔˈǝ* ‘only’ and with the particle LE. Here we concentrate on LE, but an analogous reasoning applies to *tsɔˈǝ*, too.

Since Jackendoff (1972) it has been commonly assumed that focus is marked in syntax—by a diacritic marker $F$ placed on syntactic constituents. We use boldface for “syntactic” F-markers in order to distinguish them from the mere indication of where semantic focus is located. (The distinction can be appreciated by considering the fact that a verb can be semantically focused, but it cannot, under our proposal, be syntactically F-marked.) For English (and many other languages), F-marking is, albeit not unambiguously, expressed by prosodic prominence. Roughly, it holds that prosodic prominence (nuclear stress) must be realized within the F-structural constituent. We use boldface for “syntactic” F-markers in order to distinguish them from the mere indication of where semantic focus is located. (The distinction can be appreciated by considering the fact that a verb can be semantically focused, but it cannot, under our proposal, be syntactically F-marked.) For English (and many other languages), F-marking is, albeit not unambiguously, expressed by prosodic prominence. Roughly, it holds that prosodic prominence (nuclear stress) must be realized within the F-marked constituent. Even though these core assumptions are part of Rooth’s (1992) alternative semantics for focus, whose basic tenets we subscribe to, it does not seem adequate to us to assume any kind of free F-marking for Awing, simply because we see no empirical evidence for it. Obviously, this leads to a fundamental problem in applying Rooth’s theory of focus association to the Awing data. Rooth’s basic idea is that there is an operator, namely $\sim$ (“squiggle”), which “associates with focus” or, more technically, it operates on the focus semantic value of its syntactic complement. The focus semantic value, in turn, is determined by F-marking. Two identical syntactic structures with two different F-markings have two different focus semantic values (marked by $\llbracket \cdot \rrbracket_f$), as illustrated schematically in (52). If appropriate particles are used, such as the exclusive *only* or the additive *also*, the difference in the focus semantic value can translate to a semantic difference.

$\llbracket A_F B \rrbracket_f \neq \llbracket A B_F \rrbracket_f$

The problem is that if we want to stick to the assumption that there is no F-marking in Awing, then a focus sensitive operator in this language, or LE in particular, has nothing to associate with (nothing to operate on). One could object that focus sensitive operators are, in fact, not focus sensitive but rather “question sensitive”, as in Beaver & Clark (2008), who propose that these operators associate with the current “question under discussion”. But this would not solve the problem fully. We saw that there is a clear structural condition on what the focus can be in

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implies that Agr can but need not be projected. At the same time, however, the non-projection of Agr is heavily constrained: it is only allowed if the subject is exhaustively focused; in all other cases, Agr projects obligatorily. This situation can be characterized in terms of a violable (interface) constraint that dictates that Agr be projected (in finite clauses). The only situation where the constraint is licitly violated is one where the subject is exhaustively focused, whereby the non-projection (and hence in situ subject) is the only way of achieving the intended interpretation. In optimality-theoretic terms, the requirement to express exhaustive focus grammatically dominates the requirement to project Agr.

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$^{50}$That is to say, *tsɔˈǝ* ‘only’ in Awing induces F-marking within its complement (anticipating the proposal). This would hold both if ‘only’ attached directly to the focused constituent or, in line with Büring & Hartmann (2001), to some extended projection of VP. An anonymous reviewer asks how *kɔ*– ‘also’ associates with focus in Awing. Based on the data from section 3, we assume that *kɔ*– operates on a set of alternatives (possibly a question under discussion) that are determined purely contextually. Hence, no F-marking is needed for *kɔ*– (or for answerhood focus). We are aware that the absence of F-marking in structures without (certain) particles implies the non-existence of semantic focus alternatives (and hence, no way of checking for question–answer congruence). While this might be conceptually unsettling, it is what the empirical situation suggests.

$^{31}$We are grateful to Jakub Dotlačil for making us aware of this problem.
the Awing LE construction. This condition ultimately overrides any contextual cues.

For the lack of anything better, we propose that the F-marking on the constituent that LE associates with (deriving the focus semantic value of LE’s complement), is introduced by LE (Exh) itself. This is done by the rule (53).\textsuperscript{32} Relative distance is defined in terms of asymmetric c-command; see (54).\textsuperscript{33}

\begin{flushleft}
\textbf{(53) F-marking by Exh}
\end{flushleft}
\begin{flushleft}
Place an F-marker on one of the closest maximal projections asymmetrically c-commanded by Exh.
\end{flushleft}

\begin{flushleft}
\textbf{(54) Relative distance to Exh}
\end{flushleft}
\begin{flushleft}
X is closer to Exh than Y if both are c-commanded by Exh and X asymmetrically c-commands Y.
\end{flushleft}

Note that the rule implies that there can be more maximal projections that are “closest” to Exh. This follows from the standard assumption that c-command excludes dominance (see, e.g., Rizzi 2013): if two constituents are in a dominance relationship, then they are not in a c-command relationship and therefore, one cannot be closer than the other. If both are asymmetrically c-commanded by Exh, both are eligible for F-marking. The situation is schematized in (55), where XP, YP, and ZP all equally qualify for being F-marked, since all are asymmetrically c-commanded by Exh and it holds for all of them that there is no projection that is closer to Exh. WP cannot be F-marked because it is asymmetrically c-commanded by YP. We will see in section 4.4 how this underspecification leads to focus ambiguities of certain structures.

\begin{flushleft}
\textbf{(55)}
\end{flushleft}
\begin{center}
\begin{tikzpicture}
  \node (Exh) {ExhP}
  \node (ExhP) [below right] {Exh TP}
  \node (ExhP) [below right] {tV XP\textsubscript{F}}
  \node (ExhP) [below right] {YP\textsubscript{F} ZP\textsubscript{F} WP\textsuperscript{*F} . . .}
\end{tikzpicture}
\end{center}

A few theoretical remarks are in order. To start with, we should note that the minimality-based focus association that our proposal entails is not a novel theoretical concept and it is not specific to Awing. It has been observed for German (Jacobs 1983; Büring & Hartmann 2001) and for Vietnamese (Erlewine to appear) that focus-sensitive particles associate with the closest possible constituent. This “closeness requirement” accounts for the pattern in (56), illustrated on German. In (56a), the focus-sensitive particle \textit{sogar} ‘even’ associates with the subject Rufus (capitals mark prosodic prominence). (56b) shows that the same syntactic configuration does not allow for an association with \textit{dem Mädchen} ‘the girl’ (despite it being prosodically prominent) because it is not close enough to \textit{sogar}. In order for the intended association to work, \textit{sogar} has to be placed lower, as shown in (56c).

\begin{flushleft}
\textbf{(56)}
\end{flushleft}
\begin{flushleft}
a. Gestern hat \textbf{sogar} RUFUS\textsubscript{F} dem \textit{Mädchen} Blumen geschenkt.
\end{flushleft}
\begin{flushleft}
\textit{Yesterday, even RUFUS gave flowers to the girl.}
\end{flushleft}

\textsuperscript{32}Mitcho Erlewine (p.c.) rightly points out that traces must be excluded from F-marking by Exh, in order for the account to work as intended. For relevant discussion on the F-marking of traces, see Erlewine (2014).

\textsuperscript{33}An anonymous reviewer suggests that F-marking by Exh could be simplified by assuming that Exh F-marks everything (or possibly anything) in its (asymmetric) c-command domain. In some cases, this would necessitate rightward movement above ExhP. See footnote 40 for more discussion.
yesterday has even Rufus the.DAT girl flowers given
   Intended: ‘Yesterday, Rufus gave flowers even to the GIRL.’

yesterday has even Rufus the.DAT girl flowers given
   ‘Yesterday, Rufus gave flowers even to the GIRL.’

   (Büring & Hartmann 2001:237–238)

There is a notable difference between this pattern (which could, by the way, also be illustrated by using the Awing exclusive particle tső ‘only’) and the patterns involving LE: while the position of German sogar ‘even’ is flexible, i.e., it can be placed as close to the focus as possible, the position of the Awing LE is fixed. Consequently, the intended association configurations can only be achieved by phrasal movements in Awing, in particular movements “out of focus” and, potentially, “into focus”; see section 4.4. The broader theoretical implication of the Awing facts is that closeness is not contingent on the positional flexibility of the focus-sensitive particle.

Let us now move on to another theoretical concern: Is the present proposal compatible with the Strong Modularity Hypothesis for Discourse Features, which we endorsed in the introduction? The worry one might have is that F-markers are focus features of sorts (as suggested, e.g., by Szendrői 2005; but see Horvath 2013 for a view compatible with ours). This is even more articulated in our proposal where F-marking seems driven by a functional head and is constrained by minimality. Together with an anonymous reviewer, we can ask: How is the proposed process of F-marking different from feature checking/valuation in probe-goal configurations?\(^{34}\) We do not want to deny the similarities, which are obvious, but would like to highlight a number of important differences, which make us believe that F-markers are fundamentally different from formal features. Firstly, formal features are, by definition, lexical. F-markers are not: being focused is hardly a lexical (i.e., inherent) property of linguistic expressions. The second point, closely related to the first one, is that formal features are located on heads (minimal projections); F-markers, on the other hand, are located on maximal projections (at least in Awing and if our proposal is correct). Thirdly, F-markers can be placed on a constituent of virtually any syntactic category. As opposed to that, formal features are usually highly constrained in terms of the syntactic categories they “live on”.

If F-markers are not formal features, the next logical question is what they are. It seems conceptually unsatisfactory to assume that F-markers are entities sui generis and that their properties are ad hoc and cannot be deduced from anything more general. Our view is that an F-marker is a species of a referential index.\(^{35}\) Referential indices, like F-markers, are highly

\(^{34}\) The same anonymous reviewer wonders whether one could avoid structure-based F-marking altogether, by stipulating covert movement of the focused constituent to SpecExhP. Awing would then be, in a way, a covert version of Hungarian. While we do not have direct arguments against this hypothesis, we see two conceptual issues with it. Firstly, we are not convinced that structure-based F-marking is avoided under this account. One would still have to stipulate (as one must for Hungarian, with the potential proviso of exhaustive non-foci; but see footnote 8) that F-marking targets either the constituent in SpecExhP or a constituent dominated by it; i.e., it would be structurally constrained. Secondly, the choice of the target of the covert movement would be constrained by minimality: only the constituent closest to Exh could be attracted to SpecExhP. Thus, the very same relation that we now use for F-marking would still be required, namely for attraction purposes. In result, such an analysis would achieve the same effect as ours, just with more syntactic instruments (movement would have to be added). In the absence of direct evidence for it, we see no reason to adopt it. The question that remains is how exactly Awing differs from Hungarian if not in the “strength” of a formal feature (or: overt vs. covert movement/Agree). We believe that the difference can be modeled in semantics (semantic lexical specification of the Exh head): Hungarian Exh requires two arguments (being focus-sensitive upon the second one), while Awing Exh only requires one argument. This difference bears a relation to the familiar distinction between structured propositions and alternative semantics. A full exposition of the idea would make up for another paper, so we have to leave it at this.

\(^{35}\) An anonymous reviewer points out that the assignment of referential indices is not structurally constrained (which leaves an important aspect of structural F-marking unaccounted for). We agree that in general, this is indeed generally the case. Depending on one’s analysis of reflexive anaphora, however, it could be that the
unselective in terms of the syntactic category they represent: there are pronouns that stand for NPs, DPs, APs, VPs, CPs, etc.\textsuperscript{36} Also, the use of referential indices can be context dependent (and hence non-lexical): whether a VP or CP will figure in (co-)referential discourse relations is certainly not a lexical choice. Finally, see Kratzer (1991) for arguments to the effect that mere F-marking is not sufficient; according to Kratzer, F-markers must be indexed, just like pronouns.\textsuperscript{37}

### 4.4 Structural descriptions of constructions with LE

In this section, we show how our general and unified analysis of LE yields syntactic structures of sentences with exhaustive focus placed on a variety of constituents: object, indirect object, subject, verb, and verb phrase. What all these structures have in common is that LE is located in Exh (sec. 4.2) and that the focus is (one of) the closest maximal projection(s) asymmetrically c-commanded by LE (sec. 4.3). Beyond that, our analysis implies no specific syntactic position of exhaustive focus in Awing.

Let us start with the simplest case: exhaustive focus on the direct object, as in (57a). This sentence receives the structural description in (57b) (we use glosses as terminals for readability).

(57) a. Ayafor a- pe- m- fē lē amūaF ambo Tsefor masāna.  
Ayafor sm- p1- n- give LE bananas to Tsefor morning  
‘It was bananas that Ayafor gave to Tsefor in the morning.’

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<td>bananasF to Tsefor morning</td>
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Now consider example (58a), where the indirect object ambo Tsefor ‘to Tsefor’ is exhaustively focused and hence directly preceded by LE. The direct object is sandwiched between the verb and LE. How does this word order arise? Our analysis strongly implies that LE is in Exh and that the verb is in Agr. The only possibility, therefore, is that the direct object is located above ExhP but below Agr. There are two options—either it is left-adjointed to ExhP or it is in SpecExhP. We choose the former, mainly to avoid the implication that the object is attracted by Exh. We take the movement of the object from within TP to the edge of ExhP to be a kind

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\textsuperscript{36}Interestingly, there seem to be no pronouns for verbal heads, which is arguably related to the fact that V (in T) does not intervene for focus association from Exh. This is expressed by the more general statement that LE can only associate with maximal projections. For a related issue, see Büring & Hartmann (2001), who observe that focus-sensitive particles cannot adjoin to non-maximal projections.

\textsuperscript{37}See also Leffel et al. (2014), who argue that F-markers can be spelled out by pronouns in Basaá (Bantu). For a recent critical discussion of Kratzer’s (1991) proposal, see Erlewine & Kotek (2016).
of scrambling licensed at the interface. It takes place in order to create a configuration that is in line with Generalization 1, namely that the focus be the closest constituent asymmetrically c-commanded by LE. At this point, this movement might seem ad hoc, but we will soon see that it is available more generally (in particular also in the case of subject focus). It is also worth pointing out that the focus itself—*ambo Tsefor* ‘to Tsefor’ in this case—occupies no designated focus position. Under our analysis there is no need to abandon the null hypothesis that it is simply in situ. 38

(58) a. Ayafor a-pe’-m-fe ωmúa lo [ambo Tsefor]p masáano.  
Ayafor SM-P1-N give bananas LE to Tsefor morning  
‘It was Tsefor that Ayafor gave bananas to in the morning.’

b.  
```
   AgrP
      /\  
     /   
   Ayafor Agr'
      /\  
     /   
    Agr ExhP
      /\  
     /   
    SM-T bananas ExhP
      /\  
     /   
    p1-V give LE TP
      /\  
     /   
    t [to Tsefor]p morning
```

Finally, let us consider a slightly more complex case, represented by the adjunct focus example (59a), where there are, apparently, two constituents between the verb and LE: the direct and the indirect object. We can think of two analytical possibilities. One is that these constituents move independently to the edge of ExhP, as illustrated in (59b). The other is that both objects are part of a single constituent—a remnant xVP (some extended projection of VP), as illustrated in (59c).

38 An anonymous reviewer suggests that our analysis is related to those which assume that the verb phrase is, in one way or another, the “focus domain” of the Bantu clause (see, e.g., Buell 2009; Cheng & Downing 2009; Zeller 2015) and that our “out of focus” movements could be analyzed as movements out of such a domain. We do not exclude the possibility that there is a deeper relation with previous proposals (see esp. our concluding discussion in section 5), but one should not jump to conclusions based on superficial similarities. First of all, the “focus domain” in Awing is the whole complement of Exh, presumably larger than the usually assumed “verb phrase”. Secondly, the “focus domain” only concerns exhaustive focus in Awing. Other foci can appear anywhere else. Last but not least, there are important details to pay attention to. Cheng & Downing (2009), for instance, argue that the verb phrase is a domain for prosodic prominence assignment, and only secondarily a “focus domain”. Zeller (2015) argues that the evacuation “out of focus” movement is driven by an [antifocus] feature, something that we consider unsubstantiated for the Awing case.
Both of the analyses are plausible, though they also have their issues. The former analysis faces the problem of order preservation, i.e., that the objects keep their base order, despite both having moved. An account of order preservation that we consider compatible with our assumptions can be found in Fox & Pesetsky (2005). The latter analysis implies that the objects form a constituent to the exclusion of the adjunct. Such a configuration could obtain already in the base-generated structure, provided that temporal adjuncts right-adjoin to some xVP, containing both objects.\footnote{A careful reader might notice that this would compromise our basic assumption that exhaustive focus is the closest constituent asymmetrically c-commanded by le. In particular, if (temporal) adjuncts were structurally higher than objects, they would always block exhaustive focusing of objects. For instance, the example (57a) would be a case of adjunct focus, rather than object focus, contrary to facts. Gisbert Fanselow (p.c.) notes that} Alternatively, it could involve an intermediate step, one where the
adjunct scrambles out of the relevant xVP before that xVP remnant-moves to merge with ExhP. Interestingly, there is evidence that such type of scrambling is attested in Awing, as shown in (60). Example (60a) shows that the canonical direct object – indirect object order can be reversed and example (60b) shows that the adjunct can be placed in front of both objects.40

(60) a. Ayafor a- pe’- m- fé [ambo Tsefor ṭamú t masáano.]
    Ayafor sm- p1- n- give to Tsefor bananas morning

b. Ayafor a- pe’- m- fé [masáano ṭamú ambo Tsefor t.]
    Ayafor sm- p1- n- give morning bananas to Tsefor
‘Ayafor gave bananas to Tsefor in the morning.’

It is notable that these non-canonical orders exhibit restricted information structuring possibilities. First, the question–answer test reveals that while the scrambled constituent can be interpreted as focused, the constituents that are crossed by the scrambling cannot. For instance, (60a) could be preceded by the question in (61a), but not by (61b). Second, as illustrated by (62) (a modification of (60a)), only the scrambled constituent can be preceded by LE, which also supports the backgrounded (non-focus) status of the constituents crossed by scrambling.41

(61) a. Ayafor a- pe’- m- fé amúɔ ambo wó masáano?
    Ayafor sm- p1- n- give bananas to whom morning
    ‘To whom did Ayafor give bananas in the morning?’

b. Ayafor a- pe’- m- fé kó ambo Tsefor masáano?
    Ayafor sm- p1- n- give what to Tsefor morning
    ‘What did Ayafor give to Tsefor in the morning?’

(62) Ayafor a- pe’- m- fé {l5} ambo Tsefor {*l5} amúɔ {*l5} masáano.
    Ayafor sm- p1- n- give LE to Tsefor LE bananas LE morning
    ‘It was Tsefor that Ayafor gave the bananas to in the morning.’

These findings raise the question of what forces scrambled constituents to be interpreted as focused and, relatedly, what kind of focus is being implied by the construction at hand. We can only speculate at this point that LE has a covert counterpart, projected by a variant of the Exh head. The presence of such a covert head would only be obligatory if it were needed to satisfy the effect-on-output condition (Chomsky 2001): Scrambling as an optional operation is prohibited as uneconomical, unless it produces an output (interpretation) that would not be possible without the scrambling. This in turn implies that scrambled foci are somehow semantically different from non-scrambled ones. For the present paper, we leave open the issue of how different they are and concentrate further on constructions with LE.

We now turn to the case of subject focus. We saw that there are essentially two options to express subject focus within the monoclausal strategy, both of which share the property

this problem would be avoided if Generalization 1 and the associated rule of F-marking by Exh were formulated in terms of linear order rather than c-command. We agree with an anonymous reviewer that this would imply a substantial modification to the assumptions introduced in section 4.3. In particular, linear association would necessitate a direct communication between compositional semantics and PF. The empirical problem we see with a linear account is that it would leave us with no systematic take on focus ambiguities.

40Our working assumption is that the non-canonical order is derived by a scrambling of the focused constituent across the backgrounded ones. While scrambling of foci is ungrammatical in some languages, such as German (Lenerz 1977), others seem to allow for it, such as Japanese or some Slavic languages (Bošković 2009). An anonymous reviewer points out that the non-canonical orders could also be derived by rightward-moving the backgrounded constituents. Such an analysis would, however, lead to a configuration where the backgrounded constituents asymmetrically c-command the focused one, which would in turn predict wrong associative behavior of LE (two provisos: (i) rightward movement could target a position above ExhP; (ii) association could be linear rather than structural; see footnote 39).

41This state of affairs contrasts with the facts discussed in section 3, where we saw that the default word order imposes no information structural restrictions.
that the subject, located somewhere within the extended VP, is the first maximal projection asymmetrically c-commanded by le.\textsuperscript{42} In one of them, illustrated in (63), the canonically postverbal material moves to a preverbal and pre-le position. We assume that this is the same position that objects move to when they “clear out” the space for another postverbal focused constituent. In the other option, illustrated in (64), the canonically postverbal material remains postverbal, but is accompanied by a doubled verb.

(63) a. Emú α ambo Tsefor le pe’- m- fé Ayafor\textsubscript{F}.
   bananas to Tsefor le P1- N- give Ayafor
   ‘It is Ayafor that gave bananas to Tsefor.’

(b.)

(64) a. Lé pe’- m- fé Ayafor\textsubscript{F} fé amú α ambo Tsefor.
   LE P1- N- give Ayafor give bananas to Tsefor
   ‘It is Ayafor that gave bananas to Tsefor.’

(b.)

The examples below show that these two options can in fact be combined: one constituent can stay in situ, while another one moves to the edge of ExhP. The examples also illustrate that as long as some constituent stays in the post-subject position, the verb must be doubled.

\textsuperscript{42}An anonymous reviewer correctly points out that the proposed subject focus configurations allow for an interpretation whereby the focus is on the whole xVP, as that constituent is also asymmetrically c-commanded by le. This would, in effect, amount to placing exhaustive focus on the whole clause. According to the intuition of Henry Fominyam, however, such an interpretation is not available in the pertinent construction. The reason for the missing interpretation could be that it is pragmatically highly marked to have exhaustive focus with no background and therefore, a very unrestricted set of alternatives. It is interesting to note, however, that there are languages that exhibit the predicted behavior (to the extent that our predictions extend to them). Somali, for instance, uses the particle baa to mark focus on the element that precedes it (see Hyman & Watters 1984:241–242). If baa follows the object in Somali, an object or a VP focus interpretation is available (a situation comparable to the Awing one). If baa follows the subject, however, a subject or a clause focus interpretation is available.

29
(65) a. Emú̃ bɔ̃ pe'-m- fέ́ Ayaforfέ ambo Tsefor.
   bananas LE P1- N- give Ayafor give to Tsefor

   b. Ambo Tsefor bɔ̃ pe'-m- fέ́ Ayaforfέ amú̃.
   to Tsefor LE P1- N- give Ayafor give bananas

   ‘It is Ayafor that gave bananas to Tsefor.’

The reason why the verb doubles in cases like (64) and (65) remains unclear. The issue requires further investigation, which goes beyond this paper. The question that we would like to address, at least superficially, is what motivates the choice among the word order alternatives that Awing makes available in the exhaustive subject focus construction. To a certain extent at least, the choice is information-structurally driven. In particular, it seems that pre-LE constituents receive a contrastive topical (CT) interpretation (where contrastive topic is understood in the classical sense of Büring 2003). For instance, (65a) would be a particularly natural continuation to ‘As for the rice\textsubscript{CT}, it was Ngwe\textsubscript{F} that gave it to Tsefor’ (CT on direct object) and (65b) would be a natural continuation to ‘As for Ngwe\textsubscript{CT}, it was Alombah\textsubscript{F} that gave him bananas’ (CT on indirect object). Having said that, we believe that this does not constitute evidence for a specialized contrastive topic position in Awing. First, there is no categorical (grammatical) requirement for contrastive topics to be placed there. Second, the pre-LE position can remain unfilled, as demonstrated by (64). This means that our “weak” assumption that pre-LE constituents are simply adjoined to ExhP, seems to carry over to these cases well.

Let us move on to the exhaustive focusing of verbal categories. Consider first our example of verb focus—(66a) (repeated from section 4.1). In this case, the verb—in its bare stem form—gets doubled in a position after LE, thus achieving the required association. We propose that this doubling instantiates a spellout of a lower copy of the verb.\footnote{Recall that verb doubling also occurs in cases of verb focus. We turn to those cases shortly.} The object (or any other preverbal material) moves out of the way to the edge of ExhP. We can only speculate why the object moves out of the TP obligatorily. Either the object would intervene between LE and the doubled verb, disrupting the relation between LE and the focused verb (suggesting that Awing is, at some level of representation, an OV language; see footnote 10 and Kandybowicz 2008 for some relevant discussion), or, if the object stayed in the complement of LE, the verb would not be prominent enough to be interpreted as focus (which in turn would require an additional constraint on the association of LE with focus). The resulting structure is in (66b) (the unclear base order is indicated by placing the xVP-internal material into curly brackets).\footnote{An anonymous reviewer kindly points out that the present analysis receives indirect cross-linguistic support from languages in which verb focus is expressed by the disjoint verb form, which in turn implies that everything (but the verb) has evacuated from the VP. Zulu is a case in point; see Buell (2006).}
Spelling out multiple copies of an expression is certainly a marked strategy but it is well-motivated in this case because it represents the only strategy that satisfies the independent requirements of exhaustive verb focusing. Let us briefly consider the potential alternatives. In the canonical word order S V O, or S V O LE, LE does not precede the intended focus. The order S LE V O (a violation of Generalization 2) cannot be derived because V moves to Agr which is higher than Exh. The alternative which one could expect to be successful is LE V S (V O) or O LE V S. In these cases—reserved for subject focus—the verb follows LE. However, verb focus interpretation of these structures is not available. This follows from our assumption that LE can only “see” maximal projections.

Verb doubling as a strategy of verb or verum focus marking is in fact a fairly common phenomenon cross-linguistically (see Kandybowicz 2008 for a comprehensive discussion). A particularly popular analysis of this phenomenon is the so-called parallel chain analysis, in which both overt verb copies head a movement chain of their own (Aboh 2006; Collins & Essizewa 2007; Kandybowicz 2008; Aboh & Dyakonova 2009). Consider Collins & Essizewa’s Kabiye (Gur) example in (67). The pattern looks superficially very similar to the one in Awing: a standard transitive structure (VO) is followed by an infinitival copy of the main verb. That copy is preceded by the marker kí, which the authors analyze as a focus marker. The authors argue that two types of V(P) movement have taken place in the derivation of (67). First, V moves to a low SpecFocP (“low” in the sense of Belletti 2004), which is selected by a head realized by the focus marker kí, labeled simply as KI, after which the remnant VP moves to SpecKIP. Last, V gets extracted from within the fronted remnant VP and moves to I, headed by the imperfective marker. In result, both the finite and the infinitival copy of the verb head their own movement chain: the lower (infinitival) one is located in SpecFocP and the higher (finite) one in I. Standard spell-out rules apply and both copies get overtly spelled out.

As far as we can tell, there is nothing that would explicitly militate against the use of parallel chains in Awing verb focus structures, which could in principle be analyzed along the lines of Collins & Essizewa’s analysis of Kabiye. At the same time, however, we see no independent
evidence supporting this idea: as we have argued, Awing exhaustive foci remain, by default, in situ. It is therefore unclear what would force a focus-related verb movement in Awing.

In sum, our current informal analysis has it that Awing focus-related verb doubling is an interface-conditioned realization of both copies of one and the same chain. While such an analysis may be non-standard, we see no explicit support for parallel chains. More research has to be done to gain a solid understanding of verb doubling in Awing, which, as we have seen, does not only occur in verb focus environments, but also in subject focus environments.

The type of exhaustive focus remaining to be discussed is VP focus, an example of which is given in (68a). The syntactic structure we propose for VP focus is entirely parallel to the one assumed for object focus, as shown in (68b): the structure/word order is canonical, with LE following the verb and preceding the object. We propose that in this case LE associates with the whole VP (or some extended projection of the VP). Even though the object is the only constituent overtly spelled out within the VP, it seems natural to assume that the verb (or its covert copy) is available for interpretation in the VP.

The only problem that remains to be discussed is the problem of focus ambiguity: the configuration in (68b) (or (57b)) is ambiguous between VP focus and object focus. Our definition of relative distance to LE in terms of asymmetric c-command, introduced in section 4.3, provides an adequate account of this phenomenon: There is no c-command relation between the VP and the object contained in it. For that reason, neither counts closer to LE than the other. And since both count as being closest, both can be F-marked.

Perhaps it comes as no surprise that the type of ambiguity considered is observed more generally. For instance, the sentence in (69) is four-way ambiguous, depending on whether the exhaustive focus is on the whole VP, on the larger NP ‘mother of Tsefor’, the smaller NP ‘mother’, or on the possessor phrase ‘of Tsefor’. (While ‘mother’ and ‘of Tsefor’ are not in a dominance relation, they are not in an asymmetric c-command relation either.)

\[\text{(68) a. Ngwe a- no- [n- tò- m- fóó] lâ ajwa’rò_F.} \]
\[\text{Ngwe sm- p2- n- PROG- n- read LE book} \]
\[\text{‘It was reading a book (rather than cooking achu) that Ngwe did.’} \]

\[\text{b.} \]
\[\text{AgrP} \]
\[\text{Ngwe} \]
\[\text{Agr} \]
\[\text{ExhP} \]
\[\text{SM-} \]
\[\text{T} \]
\[\text{LE} \]
\[\text{. . .} \]
\[\text{P2-} \]
\[\text{V} \]
\[\text{read} \]
\[\text{xVP_F} \]
\[\text{t book} \]

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\[\text{(i) John read a book about CAMEROON, . . .} \]
\[\text{a. . . . he wasn’t cooking.} \]
\[\text{VP focus} \]
\[\text{b. . . . not a newspaper.} \]
\[\text{object focus} \]
\[\text{c. . . . not about Kenya.} \]
\[\text{PP-modifier focus} \]

\[\text{47This situation is reminiscent (and arguably somehow related) to the well-known phenomenon of focus projection in languages like English, where prosodic prominence on the suitable element (marked by capitals) leaves the information structure of a sentence underspecified.} \]

\[\text{48Note that placing LE on the possessor pa Tsefor ‘of Tsefor’ is ungrammatical, as shown in example (i). This} \]
Ngwe a- n- n- tsap l5 na mā pə Tsefor, ...
Ngwe sm- p2- n- speak LE with mother of Tsefor
‘Ngwe spoke with the mother of Tsefor…’

a. ‘…he wasn’t cooking.’

b. ‘…not to Ayafor.’

c. ‘…not to the father of Tsefor.’

d. ‘…not to the mother of Ayafor.’

Finally, let us point out that examples like (68a) or (69) do not allow for an interpretation whereby the whole clause (including the subject) is in focus (see also footnote 42 for a related issue). In other words, the subject must be interpreted as part of the background. We can only speculate why this is the case. It could be that it is pragmatically odd to place a whole clause (proposition) into an exhaustive focus without providing any overt background: there would be no formal source of restricting the focus alternatives. A second option is that the subject cannot reconstruct for focus interpretation to a position within the extended VP; notice that reconstruction to SpecTP would not be of help because TP, which is not asymmetrically c-commanded by LE, cannot be F-marked under our proposal from section 4.3. We leave this issue for future research.

In summary, we have showed that the basic proposal introduced in sections 4.2 and 4.3, together with a number of additional assumptions, generates a set of syntactic structures that are plausible structural descriptions of sentences containing LE and an exhaustive focus that it associates with. The additional assumptions introduced in this section are summarized below.

A6 Canonically postverbal constituents (objects, adjuncts, VP) can move to the edge of ExhP in Awing. This movement is not feature-driven (optional from the perspective of syntax) and is licensed at the interface.

A7 The verb can be spelled out twice—once incorporated in the functional complex and once in its bare stem form in the VP.

We showed that A6 is needed quite generally, to account for the focusing of canonically postverbal material such as indirect objects or adjuncts that are preceded by something else in the postverbal position, for the focusing of subjects, as well as for the focusing of verbs. Assumption A7 is needed for verb focus, but might also be helpful in one of the subject focusing strategies. The exact nature of verb doubling in Awing remains an open issue.

4.5 Evidence for presupposed exhaustivity

We have stated and further assumed that the construction under investigation involves exhaustive rather than “plain” focus. In this section, we provide empirical evidence which supports this assumption and justifies translating the Awing LE construction with the help of the English cleft construction.

According to the state-of-the-art proposal of Velleman et al. (2012), English clefs convey two meanings.\footnote{A competing proposal for English clefs has recently been developed by Büring & Križ (2013) and Križ (to appear). We rely on Velleman et al.’s analysis more or less for expository purposes. At present, we cannot exclude the possibility that Büring & Križ (2013) or Križ (to appear) provide a more adequate account of the semantics of Awing LE constructions.} They assert that the prejacent is true and presuppose that any focus alternative follows under our present proposal if the movement of the possesee (na) mā ‘(with) mother’ cannot strand this possessor. Such restrictions are, of course, not uncommon crosslinguistically.

\begin{itemize}
  \item[(i)] *Ngwe a- n- n- tsap na mā l5 po Tsefor.
    Ngwe sm- p2- n- speak with mother LE of Tsefor
    Intended: ‘Ngwe spoke with the mother of Tsefor (rather than the mother of Ayafor).’
\end{itemize}
stronger than the prejacent is false. We refer to the latter inference as presupposed exhaustivity. Consider a simple example: (70a) asserts that the prejacent, i.e. ‘Dave and Sue smoke’ is true, and presupposes that any stronger alternative, e.g. ‘Dave, Sue, and Lynn smoke’, is false. In other words, (70a) exhaustively identifies the smokers: Dave and Sue smoke, but nobody else does. The presuppositional nature of the exhaustive inference is illustrated by (70b) and its continuations. While the prejacent, namely ‘Dave and Sue smoke’ is targeted by negation, the presupposition that no stronger alternative is true survives, as indicated by the infelicity of the continuation in (70biii).

(70)  a. It is [Dave and Sue]F who smoke.
   b. It isn’t [Dave and Sue]F who smoke, ...
      (i) ... it’s just Dave.
      (ii) ... it’s Lynn.
      (iii) #... it’s Dave, Sue, and Lynn.

We will now go through a number of tests showing (i) that the Awing LE construction is exhaustive and (ii) that its exhaustivity is presupposed rather than asserted.

If sentences with LE express exhaustivity, they should be logically incompatible with continuations that deny the exhaustive inference. If Dave and Lynn smoke is true and exhaustive, i.e., it conveys that Dave and Lynn and nobody else smokes, it is a contradiction for the speaker to continue in this way: and Sue smokes, too. Consider first an Awing sentence without LE, as in (71a), and suppose that it is uttered as an answer to a question like ‘What did Ayafor kill?’ The sentence is composed of two conjoined clauses where the first states that Ayafor killed a chicken and the second adds—using the additive prefix kó—that he also killed a goat. Example (71b) differs only by employing the particle LE, associated with the direct object mbi ‘chicken’. In this case, it is incoherent to follow up by saying that Ayafor also killed a goat. The intuition is that the two conjoined clauses contradict each other—just as expected under our semantic analysis of LE.

(71)  **Context:** ‘What did Ayafor kill?’ / ‘What is it that Ayafor killed?’
      a. Ayafor a- nə n- dʒútə mbiŋbó a a- nə n- kó- n- dʒútə mbiŋbó.
         Ayafor sm- p2- N- kill chicken and sm- p2- N- also-N- kill goat
         ‘Ayafor killed a chicken and he also killed a goat.’
      b. #Ayafor a- nə n- dʒútə mbiŋbó a a- nə n- kó- n- dʒútə mbiŋbó.
         Ayafor sm- p2- N- kill LE chicken and sm- p2- N- also-N- kill goat
         Intended: ‘Ayafor killed a chicken and he also killed a goat.’

To draw a fuller picture, we add an analogous minimal pair, this time employing subject focus. Again, the variant with LE is intuitively a contradiction. This lends further support to our unified analysis of LE—whether it is postverbal or preverbal.

(72)  **Context:** ‘Who cooked a soup?’ / ‘Who is it that cooked a soup?’
      a. Azise a- nə náŋ巫 na’a a Ngwe a- nə n- kó náŋ巫 na’a.
         Azise sm- p2- cook soup and Ngwe sm- p2- N- also-cook soup
         ‘Azise cooked a soup and Ngwe cooked a soup, too.’
      b. #Na’a ló na náŋ巫 Azise a Ngwe a- nə n- kó náŋ巫 na’a.
         soup LE p2- cook Azise and Ngwe sm- p2- N- also-cook soup
         Intended: ‘I was Azishe who cooked a soup and Ngwe also cooked a soup.’

The examples below compare the behavior of focus associated with tsó’ ‘only’ vs. LE. The exclusive particle ‘only’ asserts the exhaustivity of its prejacent. The particle LE, by assumption,
presupposes the prejacent’s exhaustivity.\textsuperscript{50} There are a number of ways in which the difference between assertion and presupposition can be tested. We illustrate two of them below. In (73), we see that the initial assertion, namely that Ngwe bought a goat, can be followed up by the same proposition modified by ‘only’, given in (73a). This is possible because the exhaustivity of the proposition is asserted, which is the proper (or at least prototypical) way of conveying new information (updating the common ground). The clause in (73a) directly contrasts with the one in (73b), which is inappropriate as a continuation to the initial assertion. The reason is the particle ‘le’ presents the exhaustivity of the focus as presupposed, which is (typically) a very marked way of conveying new information.\textsuperscript{51}

\begin{enumerate}
\item Ngwe a- na- n- ḍžúna mbiŋó ló maŋ na- n- ḍʒu’ō ñgó…
\item Ngwe sm- p2- N- buy goat but I p2- N- hear that ‘Ngwe bought a goat and I heard that…’
\end{enumerate}

\begin{enumerate}
\item a. … a- na- n- ḍžúna tsʻō mbiŋó.
\item sm- p2- N- buy only goat ‘…he bought only a goat.’
\item b. #… a- na- n- ḍžúna ló mbiŋó.
\item sm- p2- N- buy LE goat ‘…it was a goat that he bought.’
\end{enumerate}

The examples in (74) and (75) bring out the differential status of exhaustivity by using negation and continuations with ‘also’ and LE. Example (74) is a combination of negation with the exclusive particle tsʻO ‘only’ (modifying the direct object mbiŋó ‘goat’). The exhaustivity of the exclusive particle is asserted and therefore targeted by negation, ultimately conveying that a goat was not the only thing that Ngwe bought. Consequently, the additive continuation that Ngwe also bought a chicken, see (74a), is a natural one. By contrast, continuing with the LE statement (74b) is infelicitous. This is expected under our present analysis, under which LE presupposes exhaustivity. Consider this in more detail: The initial statement (74) entails that Ngwe bought a goat and, in addition, something else. And even though the continuation with LE suggests that Ngwe bought a chicken (potentially satisfying the ‘something else’ entailment of the previous statement), it also presupposes that he bought nothing else than a chicken—directly contradicting an entailment of the initial statement.

\begin{enumerate}
\item Ngwe a- na- má- n- ḍžúna tsʻō mbiŋó…
\item Ngwe sm- p2- NEG- N- buy only goat ‘Ngwe didn’t only buy a goat…’
\end{enumerate}

\begin{enumerate}
\item a. … a- na- ŋ- kó- n- ḍžúna ŋobó.
\item sm- p2- N- also- N- buy chicken ‘…he also bought a chicken.’
\item b. #… a- na- n- ḍžúna ló ŋobó.
\item sm- p2- N- buy LE chicken ‘…it was a chicken that he bought.’
\end{enumerate}

Now, consider the case of negation combined with the LE particle, as in (75). According to our proposal, the exhaustivity of LE is presupposed and is therefore expected to survive the embedding under negation. What the negation targets is only the prejacent, conveying that Ngwe didn’t buy a goat. The continuations support this view. In contrast to (74a), the additive continuation in (75a) is infelicitous because it entails that Ngwe bought something else besides

\textsuperscript{50}See Velleman et al. (2012) for an analysis of ‘only’ that uses the same ingredients as their analysis of clefts.

\textsuperscript{51}The reader should not get confused by the presence of ‘le’ in (73). This is not the LE particle but the conjunction ‘but’. We leave open the obvious question whether this homonymy is accidental or not.
a chicken. This entailment, however, is not supported by (75). The continuation with \textit{le} in (75b), on the other hand, is felicitous: it naturally picks up on the exhaustive presupposition of the statement with \textit{le}, reiterating it and at the same time filling in the information on which proposition is the strongest true one, namely that Ngwe bought a chicken.

(75) Ngwe a- np- má- n- džůn̄ ló mbiubectl…
    Ngwe SM- P2- NEG- N- buy LE goat
    ‘It wasn’t a goat that Ngwe bought…’

a. #… a- np- p- kó- n- džůn̄ ṣgangó.
    SM- P2- N- also- N- buy chicken
    ‘…he also bought a chicken.’

b. … a- np- n- džůn̄ ló ṣgangó.
    SM- P2- N- buy LE chicken
    ‘…it was a chicken that he bought.’

In summary, we have presented evidence supporting the assumption that \textit{le} conveys presupposed exhaustivity (also known as exhaustive identification). For reasons of space, we have not provided a semantic lexical entry for \textit{le} and a compositional analysis of how \textit{le} combines with its prejacent. It can in principle be shown, however, that \textit{le} closely corresponds to the operator \textit{cleft} proposed by Velleman et al. (2012).

4.6 Biclausal strategy

In the introduction and in section 4.1, we showed that besides the monoclausal strategy of expressing exhaustive focus, Awing exhibits a biclausal strategy, too. The relevant minimal pair is repeated below. It is worth highlighting that these strategies differ syntactically, but not semantically: there is no truth-conditional or presuppositional difference between (76a) and (76b). (We refrain from showing this explicitly for reasons of space.) This constitutes a strong argument that \textit{le} in both structures is one and the same element.

(76) a. **Monoclausal strategy**
    Ngwe a- np- m- fóp̄ ló aŋwa’ró-ásę̆̂ .
    Ngwe SM- P2- N- read LE book-god

b. **Biclausal strategy**
    Ló aŋwa’ró-ásę̆̂ pá’a Ngwe a- np- m- fóp̄a.
    LE book-god REL.COMP Ngwe SM- P2- N- read
    ‘It is the Bible that Ngwe read.’

In this section, our aim is to show that despite apparent problems, the biclausal strategy is readily accounted for by our proposal.

The biclausal structure consists of two main parts (two clauses, as we will argue): (i) a focused constituent preceded by the \textit{le} particle (\textit{ló aŋwa’ró-ásę̆̂ ‘LE Bible’ in (76b)) and (ii) a relative clause with a gap or a resumptive pronoun that corresponds to the focused constituent (\textit{pá’a Ngwe a- np- m- fóp̄o ‘that/which Ngwe read’ in (76b))}.\footnote{As pointed by an anonymous reviewer, Bantu clefts have been analyzed as biclausal structures before. See, for instance, Sabel & Zeller (2006) and Cheng & Downing (2013) for an analysis of (Durban) Zulu.} Let us first concentrate on the relative clause part of the structure. The following examples make it transparent that this structure perfectly matches the corresponding relative clause. In subject and direct object relatives, (77) and (78) respectively, there is a gap in the relativization site. When the relativization site is embedded in a PP, as in (79), it is filled by a resumptive pronoun.
(77) **Subject focus/relativization**

a. Łó má wagó pá’ā e a- pe’- m- fé ṣgasánjó ambo Alombah.
LE mother our REL.COMP SM- P1- N- give maize to Alombah
‘It was our mother who gave maize to Alombah.’

b. Maggió pá’ā e a- pe’- m- fé ṣgasánjó ambo Alombah a- ghénw naṣáŋjó.
woman REL.COMP SM- P1- N- give maize to Alombah SM- go city
‘The woman who gave maize to Alombah went to the city.’

(78) **Object focus/relativization**

a. Łó ṣgasánjó pá’ā má wagó a- pe’- m- fé e ambo Alombah.
LE maize REL.COMP mother our SM- P1- N- give to Alombah
‘It is maize that our mother gave to Alombah.’

b. Ngwun pá’ā má wagó a- pe’- m- fé e ambo Alombah a- maize REL.COMP mother our SM- P1- N- give to Alombah SM-píŋjó.
disappear
‘The maize that our mother gave to Alombah disappeared.’

(79) **Indirect object focus/relativization**

a. Łó Alombah pá’ā má wagó a- pe’- m- fé ṣgasánjó ambo yö.
LE Alombah REL.COMP mother our SM- P1- N- give maize to him
‘It is Alombah that our mother gave maize to.’

b. Ngwun pá’ā má wagó a- pe’- m- fé ṣgasánjó ambo yö a- man REL.COMP mother our SM- P1- N- give maize to him SM-píŋjó.
disappeared
‘The man that our mother gave maize to disappeared.’

This empirical pattern makes it highly plausible that the focused constituent in the biclausal LE construction functions as a head of a relative clause, providing a value for the operator-bound variable in the relativization site. The general schema for such an analysis is provided in (80).

(80)

```
XP
  \--- CP
    \--- OP₁ Cᵢ
          \--- REL.COMP AgrP
                  \--- ...e₁/RES.PRON₁...
```

The open question is where the LE particle is located and how it relates to the focused constituent. The structure in (80) seems to offer two possibilities: either LE attaches directly to the focused constituent, as schematized in (81), or it attaches to the root of the whole structure, as in (82). The problem is that both these options are not allowed under our present proposal, where LE is hosted by the functional head Exh, which has a very specific position in the extended verbal projection. A direct attachment to the focused constituent as in (81) is out of the question for at least two reasons: first, it seems highly unlikely that any kind of XP could generate an Exh head at its edge; second, even if this was possible, LE would require a clausal complement at some point of the derivation, in order to have semantic access to the proposition. An attachment to
the root as in (82) seems less hopeless—its complement is arguably of a propositional semantic type—but it is ad hoc, nevertheless, as one would have to relax the assumption that Exh is always placed between Agr and T (Assumption 1 in section 4.2), which is so crucial for the whole analysis.

(81)

Let us now see what our proposal predicts. The particle le realizes the functional head Exh, located just above T. This means that the part of the biclausal structure containing the focused constituent is in fact a full-fledged clause that, at its minimum, projects a TP in order for the Exh to have something to attach to. The predicted structure is schematized in (83).

(83)

But what could the matrix clause be? What role and location in it would the focused constituent have? Drawing inferences from other languages and constructions, including English clefts, one could assume that the focused constituent is a predicate in a copular clause, so that a structure like [le XP CP_{rel}] would in fact (underlyingly) be [be le XP CP_{rel}] (for a structure with AgrP) or [le be XP CP_{rel}] (for a structure without AgrP). The question is: Is there any evidence for the presence of a matrix copula in the biclausal le construction? The example in (84) shows that the answer is in the affirmative, though with a reservation: the version with an overt copula is somewhat stilted and dropping it is much more preferred.

(84)

Yet, using a copula becomes obligatory once it hosts a prefix whose semantics is essential to the truth conditions, such as negation:

(85)

It is worth highlighting that the resulting structures satisfy exactly the same generalizations formulated in section 4.1. First of all, the focused constituent follows le (Gen. 1). Second, if we are willing to consider the focused constituent the “subject” of the matrix clause, then it holds that le and the subject are the opposite sides of the verb (Gen. 2). Also, since the subject is postverbal, there is no agreement on the verb (Gen. 3). Cf. (86a) and (86b)—both versions of (85), expected to be ungrammatical under our analysis (violating Gen. 2 and Gen. 3). Finally, example (86c) illustrates the prohibition on multiple le particles per clause (Gen. 4).
However, as we showed in section 4, Brody Rizzi (1997) according to which notions as
modularity hypothesis for discourse features (Horvath 2010), related movements in
Awing as interface driven operations, lends new support to the strong
Modularity Hypothesis for Discourse Features (Horvath 2010), according to which notions as
focus cannot be represented in narrow syntax as formal features.

We would like to finish this paper by a discussion, albeit speculative at this point, of the
potential consequences of our research. We believe that our analysis of Awing opens up inter-
esting new avenues to approaching the syntax of exhaustive focus in general. If the Awing Exh
head and the cartographic Foc head are related, as we conjectured, it implies that this head
might in fact be parametrized with respect to how it relates to the focused constituent. While
the classical works on the F(oc) head, such as Brody (1995), Rizzi (1997), or Aboh (1998, 2004),
uniformly assume the Spec-Head relation, the present work strongly suggests that c-command
is also an option. To be clear, we do not intend to imply that these two strategies should corre-
spond to the commonly assumed division between information focus (≈ in situ ≈ c-command)
and exhaustive or identification focus (≈ ex situ ≈ Spec-Head). As we have shown in this paper,
Awing employs the in situ / c-command strategy for exhaustive focus. Our hypothesis is that
the left-peripheral Exh/Foc head always expresses presupposed exhaustivity and that languages
have a choice to either associate with the exhaustive focus by Spec-Head or by c-command,
combined with minimality (see footnote 34 for an idea of how this parameter could be encoded
without resorting to formal features or their “strength”). It is probably no accident that the
Spec-Head parameter setting has received so much more attention (to the extent that it largely
seems to be the only option that languages employ): perhaps it is simply because ex situ focus
is a phenomenon that is so much more salient. However, there is a whole class of languages
which appear to us to be good candidates for the other parameter setting and hence for an
analysis like ours. These are languages in which focus is licensed immediately after the verb

(86)  a. *A- m̄a- m- bɔ l̄o Ayafor p̄a’a a- n̄a- n- tɔ m̄- fĩn̄ọ mɔz̄iọ əl̄iọ n̄a.
sm- neg- n- be LE Ayafor REL.COMP SM- P2- NPROG- N- sell food place this
b. *L̄o Ayafor { a- m̄a- m- bɔ} p̄a’a a- n̄a- n- tɔ m̄- fĩn̄ọ mɔz̄iọ əl̄iọ
LE Ayafor SM- NEG- N- be REL.COMP SM- P2- NPROG- N- sell food place
nɔ { a- m̄a- m- bɔ}.
this SM- NEG- N- be

c. *L̄o m̄a- m- bɔ l̄o Ayafor p̄a’a a- n̄a- n- tɔ m̄- fĩn̄ọ mɔz̄iọ əl̄iọ n̄a.
LE NEG- N- be LE Ayafor REL.COMP SM- P2- NPROG- N- sell food place this

Intended: ‘It is not Ayafor who was selling food here.’

In summary, we have provided evidence that the biclausal strategy for expressing exhaustive
focus can be readily accommodated under our analysis developed in the preceding sections. By
examining the interaction of the biclausal LE construction with negation, we demonstrated that
our analysis affords some specific and non-trivial predictions, which turn out to be correct.

5 Summary and discussion

We have provided a detailed analysis of focus and especially the focus-sensitive particle LE in
the Grassfields Bantu language Awing. We argued that LE is a functional head which we called
Exh (from “exhaustivity”). In its position in the left periphery and its intimate relation to
the information structural category of focus, it bears resemblance to the Foc head assumed in
cartographic analyses of information structure (Rizzi 1997). However, as we showed in section
4, the Awing particle LE differs from the classical cartographic Foc head in two important
respects. First, it associates with a focus that occurs in its c-command domain, rather than in
its specifier. Second, the head is not information structural in the narrow sense of the term,
but rather semantic, in that it contributes presupposed exhaustivity (also called exhaustive
identification). The latter property of Exh, together with our analysis of information structure-
related movements in Awing as interface driven operations, lends new support to the Strong
Modularity Hypothesis for Discourse Features (Horvath 2010), according to which notions as
focus cannot be represented in narrow syntax as formal features.
(IAV). Examples include the Grassfields Bantu language Aghem (see Hyman & Polinsky 2010 for a recent view), various Chadic languages (Tuller 1992), and possibly also many languages with the so called conjoint vs. disjoint marking on the verb (van der Wal & Hyman 2017). If the IAV-focus turns out to be exhaustive (and at least Hyman & Polinsky 2010 and van der Wal 2011 suggest so, for Aghem and Makhuwa, respectively), then the idea suggests itself that the IAV-focus phenomenon is, in fact, the very same “immediately after Exh” phenomenon that we have described in this paper for Awing. A reformulation of IAV to IAExh has some plausibility: ever since Brody (1995), for instance, Hungarian has been taken as an example of a language where V moves to Exh (or Foc); the conjoint verbal morphology, used for marking IAV focus, could be a morphological reflex of V-to-Exh movement.

References


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